

JSON API v2.0

Data fetch routines and definitions



Eliminate the fog with Total Network Visibility®



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API Definition

This RESTful API is provided to permit external data processing of TotalView data both in pre-processed as well as post-processed results.

Data can be queried directly from a TotalView server by referencing the server's IP or DNS name, port number, and the API call. For example:

<http://servername:port/api/NetStat.json>

All fetches are relative, so they should work if the server is located behind a URL proxy.

The resulting information uses standards based JSON format (<https://www.json.org/>) for all queries to be compatible with a wide variety of browsers and query tools.

Function Summary

NetStat.json	General data on the state of the network, list of pages and footer.
DashboardHealth.json	Health percentage of the network
DashboardManufacturers.json	Listing of network equipment manufacturers on the network
DashboardSpeed.json	Interface speeds seen on the network
DashboardDuplex.json	Interface duplex count seen on the network
DashboardHED.json	Overall errors seen on the network
DashboardHUD.json	Overall utilization seen on the network
DashboardHID.json	Overall issues seen on the network
DashboardHPD.json	Overall port usage on the network
DashboardDevicesList.json?t=cpu	List devices that have CPU graphs that can be displayed
DashboardCPU.json?d=10	List device 10 CPU utilization
DashboardDevicesList.json?t=ram	List devices that have RAM graphs that can be displayed
DashboardRAM.json?d=10	List device 10 free RAM



DashboardDevicesList.json?t=mos	List devices that have MOS graphs that can be displayed
DashboardMOS.json?d=10	List device 10 MOS score
DashboardDevicesList.json?t=intUtil	List devices
DashboardInterfacesList.json?d=10	List interfaces for device 10
DashboardIntUtil.json?d=10&i=1	Show utilization for device 10, interface 1
NLT.json?q=is%20the%20internet%20up%3F	Query the NLT processor with a question
Devices.json	List the devices currently being monitored
Devices.json?d=10	List device and interface listing information for device 10
DevicesGraphData.json?d=10	Display current graph data for device 10
DevicesGraphData.json?d=10&t=h	Display historic graph data for device 10
Devices.json?d=10&i=5	Display device and interface information for device 10 interface 5
DevicesGraphData.json?d=10&i=5	Display current graph data for device 10 interface 5
DevicesGraphData.json?d=10&i=5&t=h	Display historic graph data for device 10 interface 5
Path.json	Show path updated date and time
PathMap.json?t=fh&ipa=10.0.0.40&ipb=10.30.0.12	Show the forward path map between 10.0.0.40 and 10.30.0.12
PathGraphData.json?l11-2RE D11-U Q11-18-12038081	Show path graph data for specified interfaces
Map.json	Map name information
MapConfig.json?tab=0	Map configuration for map 0
MapCurrent.json?tab=0	Map utilization information for map 0
diagramLayer3.json	Layer-3 information for network diagram
Gremlins.json	Show all groups, last poll information



Gremlins.json?GroupName=Austin	Show last poll information from group "Austin"
Gremlins.json?timeslot=3&GroupName=Austin	Show 3 polls ago from group "Austin"
favorites.json	Show interfaces listed on the Favorites tab
DevicesCurrent.json?d=10&i=3	Show current utilization of device 10, interface 3
Issues.json	Show current issues
Issues.json?GroupName=Austin	Show current issues in the "Austin" group
Netflow.json	Show interfaces configured for Netflow
NetflowGraphData.json?I23-1I I23-1O I0-6I I0-6O I2-2I	Show all interface graph data for Netflow graphs
NetflowFlows.json?d=0&i=6&f=tx&t=1530895312	Show flows for device 0, interface 6, transmitted data for timeslot 1530895312
Top10Error.json	Top 10 interfaces with errors
Top10Error.json?GroupName=Austin&scope=peak+daily	Top 10 interfaces with errors in the "Austin" group, peak daily
Top10TxPct.json	Top 10 transmitters
Top10RxPct.json	Top 10 receivers
Top10Latency.json	Top 10 latency
Top10Jitter.json	Top 10 jitter
Top10Loss.json	Top 10 loss
WAN.json	WAN interface information
WanGraphData.json?I1-6I I1-6O I45-6I I45-6O	WAN graph information
InterfacesHalfDuplex.json	Half duplex interfaces
InterfacesTrunks.json	Trunk ports
InterfacesUnknownProto.json	Interfaces with unknown protocols



InterfacesSub10Meg.json	Interfaces slower than 10meg
Interfaces10Meg.json	10Meg interfaces
Interfaces100Meg.json	100Meg interfaces
Interfaces1Gig.json	1Gig interfaces
Interfaces10Gig.json	10Gig interfaces
Interfaces100Gig.json	100Gig interfaces
InterfacesAbove100Gig.json	Interfaces faster than 100Gig
Interfaces10Meg.json	10Meg interfaces
InterfacesOperDown.json	Operationally down interfaces
InterfacesAdminDown.json	Administratively down interfaces
sdwan.json	SD-WAN interfaces
sdwangraphdata.json?C0-P C0-L C1-P C1-L	SD-WAN graph data
Tools.json	Tools page update status
ToolsIPtoMAC.json?q=10.0.0.40	ARP lookup of IP address 10.0.0.40
ToolsMACtoInt.json?q=64-00-6A-94-A0-24	MAC interface lookup of 64-00-6A-94-A0-24
ToolsMACtoIP.json?q=64-00-6A-94-A0-24	MAC to IP lookup of 64-00-6A-94-A0-24
ToolsSubnets.json	List all subnets and devices on them
ToolsVLAN.json	List all VLANs assigned to devices
Phones.json	List all phones
MOS.json	List all devices on MOS tab
MOSGraphData.json?D0-M D1-M D2-M D3-M	Show MOS graph data
qos.json	List all interfaces with QoS



qosgraphdata.json?I11-1TR I48-1TR I50-1TR	List QoS utilization graphs
siptrunks.json	List SIP trunks configured to be monitored
siptrunksgraphdata.json?C0-P C0-L	List SIP trunk data
VoIPTools.json	VoIP Tools update status
VoIPToolsWhereConn.json?q=10.0.0.40	VoIP where is 10.0.0.40 connected
update.json	Update network bridge/ARP/routing table information
cloud.json	List cloud monitored services
CloudGraphData.json?C0-P C0-L	Show graphs for cloud monitored services
Internet.json	Show Internet connectivity stats
PredictorsCabling.json	Show cabling predictors
PredictorsBandwidth.json	Show bandwidth predictors
DevicesDNSLookup.json?ip=10.10.0.10	Reverse-DNS lookup of 10.10.0.10



Function Details by Web Page

PAGE: ALL

/NetStat.json

General data of the state of the network, list of pages and footer html. Fetched in every page.

Response properties

- object
 - AutoRefresh: number
 - LastPoll: object
 - hint: string
 - value: string
 - NetworkHealth: object
 - css: string
 - hint: string
 - value: string
 - PollFrequency: object
 - hint: string
 - value: string
 - allowSearch: boolean
 - footer: object (footer html)
 - center: string
 - left: string
 - rightHref: string
 - main: array<object> (main list of links to be listed)
 - href: string
 - value: string
 - sub: object (sublinks of the main ones)
 - [key: string]: array<object>
 - href: string
 - value: string

Response examples

- *Query string: (empty)*

```
{  
  "AutoRefresh": 15,  
  "LastPoll": {
```




```

    "hint": "Service started on 6/2/2018 at 8:34:05 PM",
    "value": "6/3/2018 5:56:55 AM"
  },
  "NetworkHealth": {
    "css": "text-red",
    "hint": "12 out of 1094 total interfaces\nexceed the thresholds of\n90%
utilization and 5% errors",
    "value": "DEGRADED (1.1%)"
  },
  "PollFrequency": {
    "hint": "Poll successful",
    "value": "00:05:00"
  },
  "allowSearch": true,
  "footer": {
    "center": "<span TITLE=\"Checked:\tSat Jun  2 13:29:00
2018\nReseller:\t\t199\nCustNumber:\t12850127\nLocation:\tHQ\nExpiration:\t
1/3/2019\>License expires on  1/3/2019, licensed for 250000 interfaces</span>",
    "left": "<span title=\"v8.0 (9048)\">\&nbsp;TotalView CR 8 (9048) Copyright
&copy;2018 PathSolutions</span>",
    "rightHref": "http://files.pathsolutions.com/docs/TotalView8.pdf"
  },
  "main": [
    {
      "href": "Dashboard.html",
      "value": "Dashboard"
    },
    {
      "href": "NLT.html",
      "value": "NLT"
    },
    "...",
  ],
  "sub": {
    "Network.html": [
      {
        "href": "Path.html",
        "value": "Path"
      },
      {
        "href": "Map.html",
        "value": "Map"
      },
      "...",
    ],
  },

```



```

    "VoIP.html": [
      {
        "href": "Phones.html",
        "value": "Phones"
      },
      {
        "href": "MOS.html",
        "value": "MOS"
      },
      "... "
    ]
  }
}

```

PAGE: Calls.html

/CallsOptions.json

Options to use in the calls page 'site' dropdown

Response properties

- array<string>

Response examples

- Query string: (empty)

```

[
  "All"
]

```

/Calls.json

Calls data

Response properties

- object
 - errors: string
 - maxrows: number
 - sql: string (corresponding query sql string)
 - table: array<object> (table with call data, each item represents a call)
 - duration: string
 - extA: string
 - extB: string
 - ipA: string



- ipB: string
- jitterA: object
 - value: string
- jitterB: object
 - value: string
- lossA: object
 - hint: string
 - value: string
- lossB: object
 - hint: string
 - value: string
- nameA: string
- nameB: string
- overA: object
 - value: number
- overB: object
 - value: number
- siteA: object
 - css: string
 - value: string
- siteB: object
 - css: string
 - value: string
- time: string
- underA: object
 - value: number
- underB: object
 - value: number

Response examples

- *Query string: (empty)*

```
{
  "errors": "",
  "maxrows": 250,
  "sql": "-- CDRSelectWebCallsSELECT\tID, DATE_FORMAT(StartTime, '%c-%e-%Y %r'),
DurationSeconds,\tA_SiteName, A_Name, A_Extension, A_IP_Address, A_TotalPackets,
A_LostPackets, A_MaxJitter, A_Underruns, A_OVERRUNS,\tB_SiteName, B_Name,
B_Extension, B_IP_Address, B_TotalPackets, B_LostPackets, B_MaxJitter, B_Underruns,
```



```
B_OverrunsFROM mediastreamWHERE\tStartTime > STR_TO_DATE('5-21-2017 12:00:00 am',
'c-e-%Y %h:%i:%s %p') AND\tStartTime < STR_TO_DATE('5-22-2018 11:04:36 am', 'c-e-
%Y %h:%i:%s %p') AND\t(\t\t(A_Extension LIKE '%' AND A_Name LIKE '%' AND
A_IP_Address LIKE '%' AND A_SiteName LIKE '%') AND\t\t(B_Extension LIKE '%' AND
B_Name LIKE '%' AND B_IP_Address LIKE '%' AND B_SiteName LIKE
'%')\t\tOR\t\t(B_Extension LIKE '%' AND B_Name LIKE '%' AND B_IP_Address LIKE '%'
AND B_SiteName LIKE '%') AND\t\t(A_Extension LIKE '%' AND A_Name LIKE '%' AND
A_IP_Address LIKE '%' AND A_SiteName LIKE '%')\t)ORDER BY StartTime DESC LIMIT
250;",
"table": [
{
"duration": "00:00:15",
"extA": "116",
"extB": "118",
"ipA": "10.30.0.51",
"ipB": "10.30.0.52",
"jitterA": {
"value": "0 ms"
},
"jitterB": {
"value": "0 ms"
},
"lossA": {
"hint": "Total Packets: 734Lost Packets: 0Threshold: 1",
"value": "0.00%"
},
"lossB": {
"hint": "Total Packets: 737Lost Packets: 0Threshold: 1",
"value": "0.00%"
},
"nameA": "Tim Titus",
"nameB": "Andy Bohart",
"overA": {
"value": 0
},
"overB": {
"value": 0
},
"siteA": {
"css": "switch-a-green",
"value": "Headquarters"
},
"siteB": {
"css": "switch-a-green",
"value": "Headquarters"
}
```



```
    },
    "time": "5-21-2018 01:58:34 PM",
    "underA": {
      "value": 0
    },
    "underB": {
      "value": 0
    }
  },
  {
    "duration": "00:00:14",
    "extA": "116",
    "extB": "117",
    "ipA": "10.30.0.51",
    "ipB": "10.0.0.69",
    "jitterA": {
      "value": "11 ms"
    },
    "jitterB": {
      "value": "0 ms"
    },
    "lossA": {
      "hint": "Total Packets: 710Lost Packets: 0Threshold: 1",
      "value": "0.00%"
    },
    "lossB": {
      "hint": "Total Packets: 711Lost Packets: 0Threshold: 1",
      "value": "0.00%"
    },
    "nameA": "Tim Titus",
    "nameB": "Cindy Hauser",
    "overA": {
      "value": 0
    },
    "overB": {
      "value": 0
    },
    "siteA": {
      "css": "switch-a-green",
      "value": "Headquarters"
    },
    "siteB": {
      "css": "switch-a-green",
      "value": "Headquarters"
    }
  },
}
```



```
    "time": "5-21-2018 01:58:09 PM",
    "underA": {
      "value": 0
    },
    "underB": {
      "value": 0
    }
  },
  "...
]
}
```

PAGE: Cloud.html

/Cloud.json

Cloud data, each item represents a cloud service that is monitored by TotalView.

Response properties

- array<object>
 - address: string
 - avgLatency: string
 - hops: number
 - icon: string
 - l5mLatency: string
 - lpChange: string
 - online: boolean
 - paths: array<object>
 - hops: array<object>
 - delay: number
 - dev: number
 - devtype: string
 - dns: string
 - ip: string
 - last_seen: number
 - reached: boolean
 - server: number
 - title: string



Response examples

- Query string: (empty)

```
[
{
  "address": "salesforce.com (96.43.148.26)",
  "avgLatency": "80 ms",
  "hops": 17,
  "icon": "Graphics/salesforce.png",
  "l5mLatency": "84 ms",
  "lpChange": "0 days 02:33:30.10",
  "online": true,
  "paths": [
    {
      "hops": [
        {
          "delay": 6,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 0,
          "dev": 1,
          "devtype": "firewall",
          "dns": "hqfw1",
          "ip": "10.86.0.2"
        },
        ...
      ],
      "last_seen": 1528030864,
      "reached": true
    },
    {
      "hops": [
        {
          "delay": 5,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 0,
```



```

        "dev": 1,
        "devtype": "firewall",
        "dns": "hqfw1",
        "ip": "10.86.0.2"
    },
    "...",
],
"last_seen": 1528030804,
"reached": true
},
"..."
],
"server": 0,
"title": "SalesForce"
},
{
    "address": "aws.amazon.com (52.46.136.149)",
    "avgLatency": "99 ms",
    "hops": 28,
    "icon": "Graphics/AmazonWeb.png",
    "l5mLatency": "189 ms",
    "lpChange": "0 days 01:05:12.34",
    "online": true,
    "paths": [
        {
            "hops": [
                {
                    "delay": 5,
                    "dev": 4,
                    "devtype": "mls",
                    "dns": "Syrah",
                    "ip": "10.10.0.1"
                },
                {
                    "delay": 6,
                    "dev": 1,
                    "devtype": "firewall",
                    "dns": "hqfw1",
                    "ip": "10.86.0.2"
                },
                "...",
            ],
            "last_seen": 1528030864,
            "reached": true
        },
    ],
}

```




```
{
  "hops": [
    {
      "delay": 7,
      "dev": 4,
      "devtype": "mls",
      "dns": "Syrah",
      "ip": "10.10.0.1"
    },
    {
      "delay": 0,
      "dev": 1,
      "devtype": "firewall",
      "dns": "hqfw1",
      "ip": "10.86.0.2"
    },
    "..."
  ],
  "last_seen": 1528030744,
  "reached": true
},
"..."
],
"server": 1,
"title": "Amazon AWS"
},
"..."
]
```

/CloudGraphData.json

Graph data for clouds

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - data: array<object>
 - [key: string]: number
 - pollTime: number



- pollDelay: number

Response examples

- Query string: C0-P/C0-L/C1-P/C1-L/C2-P/C2-L/C3-P/C3-L/C4-P/C4-L/C5-P/C5-L=

```
{
  "data": [
    {
      "C0-L": 4.15999984741211,
      "C0-P": 81,
      "C1-L": 0,
      "C1-P": 72,
      "C2-L": 3.02999997138977,
      "C2-P": 25,
      "C3-L": 0,
      "C3-P": 19,
      "C4-L": 0,
      "C4-P": 95,
      "C5-L": 0,
      "C5-P": 51,
      "pollTime": 1527910478
    },
    {
      "C0-L": 4.15999984741211,
      "C0-P": 76,
      "C1-L": 0,
      "C1-P": 76,
      "C2-L": 0,
      "C2-P": 26,
      "C3-L": 0,
      "C3-P": 38,
      "C4-L": 0,
      "C4-P": 65,
      "C5-L": 0,
      "C5-P": 57,
      "pollTime": 1527910538
    },
    "...
  ],
  "pollDelay": 300
}
```

PAGE: Dashboard.html

/DashboardDevicesList.json



?

Query parameters

Name	Type	Description
t	string	

Response properties

- array<object>
 - dev: number
 - title: string

Response examples

- Query string: `t=health`

```
[
  {
    "dev": 0,
    "title": "hqp500"
  },
  {
    "dev": 1,
    "title": "hqfw1"
  },
  "..."]
```

/DashboardHealth.json

Dashboard's network health widget data

Response properties

- object
 - GOOD: boolean
 - HEALTHRATIO: number
 - STATUS: string

Response examples

- Query string: *(empty)*

```
{
  "GOOD": false,
  "HEALTHRATIO": 1.09689211845398,
```



```
"STATUS": "DEGRADED (1.1%)"
}
```

/DashboardDuplex.json

Dashboard's interface duplex widget data

Response properties

- object
 - PIEDATA: array<object>
 - COUNT: number
 - ID: string
 - TITLE: string

Response examples

- Query string: (*empty*)

```
{
  "PIEDATA": [
    {
      "COUNT": 158,
      "ID": "full",
      "TITLE": "Full Duplex"
    },
    {
      "COUNT": 5,
      "ID": "half",
      "TITLE": "Half Duplex"
    }
  ]
}
```

/DashboardHED.json

Dashboard's daily error widget data

Response properties

- array<object>
 - L: number
 - pollTime: number



Response examples

- Query string: (*empty*)

```
[
{
  "L": 6410,
  "pollTime": 1528260102
},
{
  "L": 3977,
  "pollTime": 1528260402
},
"...
]
```

/DashboardHUD.json

Dashboard's daily utilization graph

Response properties

- array<object>
 - Rx: number
 - Tx: number
 - pollTime: number

Response examples

- Query string: (*empty*)

```
[
{
  "Rx": 10438,
  "Tx": 11439,
  "pollTime": 1528259801
},
{
  "Rx": 17259,
  "Tx": 24520,
  "pollTime": 1528260101
},
"...
]
```

/DashboardSpeed.json

Dashboard's interface speed widget data

Response properties

- object
 - PIEDATA: array<object>
 - COUNT: number
 - ID: string
 - TITLE: string

Response examples

- *Query string: (empty)*

```
{
  "PIEDATA": [
    {
      "COUNT": 8,
      "ID": "1_10m",
      "TITLE": "< 10 meg"
    },
    {
      "COUNT": 10,
      "ID": "10m",
      "TITLE": "10 meg"
    },
    "... "
  ]
}
```

/DashboardManufacturers.json

Dashboard's device manufacturers widget data

Response properties

- object
 - PIEDATA: array<object>
 - COUNT: number
 - TITLE: string

Response examples

- *Query string: (empty)*

```
{
  "PIEDATA": [
```



```
{
  "COUNT": 15,
  "TITLE": "Cisco Systems, Inc"
},
{
  "COUNT": 8,
  "TITLE": "Hewlett Packard"
},
"..."
]
```

PAGE: Devices.html

/Devices.json

Device data

Query parameters

Name	Type	Description
d	number	device number
i	number	interface number
t	string	

Response properties

- object
 - addition: array<string>
 - allowLockWeb: number
 - countersTable: object (error counters table data)
 - rows: array<object>
 - errorCounter: object
 - iframe: string
 - value: string
 - errorsCurrent: string
 - errorsPerPctAvg: string
 - errorsPerPctCurrent: string
 - errorsTotal: object
 - hint: string
 - value: string
 - tracked: string



- type: string
- totals: object
 - errorsCurrent: string
 - errorsPerPctAvg: string
 - errorsPerPctCurrent: string
 - errorsTotal: string
- deviceName: string
- errSuppressed: boolean
- errors: array<object> (Network prescription data)
 - img: string
 - title: string
 - value: string
- excelInterfaceUrl: string (path/url to interface excel file)
- interfaceConnectedColumn: object (interface table connected tab data)
 - hint: string
 - title: string
- interfaceName: string
- netflow: boolean
- nextDevice: number
- nextInterface: number
- notes: array<array<string>>
- oidGraphs: array<any>
- queueGraphs: array<any>
- tableDevice: array<object> (device table data)
 - rows: array<object>
 - adminDown: number
 - avgDailyBcastsRateRx: string
 - avgDailyBcastsRateTx: string
 - avgDailyBcastsRx: string
 - avgDailyBcastsTx: string
 - avgDailyPctsRx: string
 - avgDailyPctsTx: string
 - contact: object
 - html: string
 - contactId: string
 - contactPhone: string
 - costAmortMonths: string



- costAnnualSupport: string
- costMonthOper: string
- costProcurement: string
- deployDate: string
- description: string
- devIp: string
- devName: object
- cssCell: string
- hint: string
- href: string
- iconhint: string
- iconhref: string
- value: string
- expDate: string
- firmware: object
- hint: string
- value: string
- hardware: string
- holdTime: string
- int: number
- lastPollBcastsRateRx: string
- lastPollBcastsRateTx: string
- location: string
- manage: object
- component: string
- http: boolean
- https: boolean
- ip: string
- ssh: boolean
- syslog: number
- telnet: boolean
- manufacturer: object
- hint: string
- value: string
- mfgDate: object
- hint: string
- value: string



- model: object
- hint: string
- value: string
- operDown: number
- priority: string
- protocol: string
- psuAlarmThres: string
- psuConsumpt: string
- psuGroup: string
- psuRate: string
- psuStatus: string
- psuUtil: string
- rootBridge: string
- rootCost: string
- rootPort: string
- serialNum: string
- snmpVer: string
- software: object
- hint: string
- value: string
- topologyChanges: string
- topologyLastChange: string
- uptime: string
- version: string
- title: string
- tableInterface: array<object> (interface table data)
 - avgPctSize: string
 - connDevMaxDraw: string
 - connDevPoeClass: string
 - connDevPriority: string
 - connected: string
 - description: object
 - hint: string
 - value: string
 - designatedBridge: string
 - designatedCost: string
 - designatedPort: string



- designatedRoot: string
- duplex: object
 - value: string
- favorite: object
 - confirm: string
 - href: string
 - value: string
- forwardTransactions: string
- histBcastPercentRx: string
- histBcastPercentTx: string
- ignoreInt: object
 - confirm: string
 - href: string
 - value: string
- intIp: object
 - hint: string
 - value: string
- intName: object
 - css: string
 - href: string
 - value: string
- intSpeed: object
 - hint: string
 - value: string
- lastPollBcastPercentRx: string
- lastPollBcastPercentTx: string
- lastPollUtilPercentRx: string
- lastPollUtilPercentTx: string
- macAddr: string
- mtu: number
- peakDailyErrorRate: object
 - value: string
- peakDailyUtilRx: object
 - hint: string
 - value: string
- peakDailyUtilTx: object
 - hint: string



- value: string
- poe: object
 - hint: string
 - value: string
- poePsu: string
- poeState: string
- queueType: object
 - hint: string
 - value: string
- remoteDevInt: object
 - hint: string
 - value: string
- remoteDevIp: string
- remoteDevMethod: string
- remoteDevName: object
 - hint: string
 - value: string
- remoteDevPlatform: string
- stateLastChange: object
 - hint: string
 - value: string
- stateType: object
 - hint: string
 - value: string
- statusAdmin: string
- statusOper: string
- stpEnable: string
- stpPathCost: string
- stpPriority: string
- stpState: string
- x: object
 - css: string
 - hint: number
- utilizationTable: array<object> (utilization table data)
 - rx: string
 - title: string
 - tx: string



- graphs: array<string> (list of graph types)
- trafficData: object (traffic table data)
 - historical: object
 - broadcastsRx: string
 - broadcastsTx: string
 - packetsRx: string
 - packetsTx: string
 - percentBroadcastsRx: string
 - percentBroadcastsTx: string
 - lastpoll: object
 - broadcastsRx: string
 - broadcastsTx: string
 - packetsRx: string
 - packetsTx: string
 - percentBroadcastsRx: string
 - percentBroadcastsTx: string
- excelDeviceUrl: string (path/url to device excel file)
- totals: object (table bottom row data)
 - admin: string
 - device: string
 - interface: string
 - oper: string
 - operating: string
 - procurement: string
 - support: string

Response examples

- *Query string: (empty)*

```
{
  "allowLockWeb": 0,
  "excelDeviceUrl": "docs/Inventory.xlsx",
  "tableDevice": [
    {
      "rows": [
        {
          "adminDown": 10,
          "avgDailyBcastsRateRx": "0.000%",
          "avgDailyBcastsRateTx": "0.000%",
          "avgDailyBcastsRx": "0",
```



```

    "avgDailyBcastsTx": "0",
    "avgDailyPctsRx": "11,868k",
    "avgDailyPctsTx": "11,825k",
    "contact": {
      "html": "<A
HREF=\"mailto:itops@pathsolutions.com\">itops@pathsolutions.com</A>"
    },
    "contactId": "B-4837DG",
    "contactPhone": "1-888-555-2883",
    "costAmortMonths": "60",
    "costAnnualSupport": "$389",
    "costMonthOper": "$112.77",
    "costProcurement": "$4,821",
    "deployDate": "1/5/2017",
    "description": "Palo Alto Networks PA-500 series firewall",
    "devIp": "10.0.0.7",
    "devName": {
      "cssCell": "switch-a-green",
      "hint": "Palo Alto Networks PA-500 series firewall",
      "href": "Devices.html?d=0",
      "iconhint": "Type:\t\tFirewall\nManufacturer:\tPalo Alto
Networks\nModel:\t\tPA-500\nSoftware:\t8.0.6\n",
      "iconhref": "assets/img/firewall.svg",
      "value": "hqa500"
    },
    "expDate": "06-17-2019",
    "firmware": {
      "hint": "",
      "value": ""
    },
    "hardware": "2.1",
    "holdTime": "-",
    "int": 15,
    "lastPollBcastsRateRx": "0.000%",
    "lastPollBcastsRateTx": "0.000%",
    "location": "Santa Clara",
    "manage": {
      "component": "telnet-ssh-http-https-syslog",
      "http": true,
      "https": true,
      "ip": "10.0.0.7",
      "ssh": true,
      "syslog": 0,
      "telnet": true
    },
  },

```



```

    "manufacturer": {
      "hint": "1",
      "value": "Palo Alto Networks"
    },
    "mfgDate": {
      "hint": "009401003580",
      "value": "-"
    },
    "model": {
      "hint": "entPhysicalModelName:\tPA-500\nentPhysicalName:\tPA-500\nentPhysicalDescr:\tPA-500",
      "value": "PA-500"
    },
    "operDown": 10,
    "priority": "-",
    "protocol": "-",
    "psuAlarmThres": "-",
    "psuConsumpt": "-",
    "psuGroup": "-",
    "psuRate": "-",
    "psuStatus": "-",
    "psuUtil": "-",
    "rootBridge": "-",
    "rootCost": "-",
    "rootPort": "-",
    "serialNum": "009401003580",
    "snmpVer": "v2c",
    "software": {
      "hint": "8.0.6",
      "value": "8.0.6"
    },
    "topologyChanges": "-",
    "topologyLastChange": "-",
    "uptime": "165d 19h 51m",
    "version": "-",
  },
  {
    "adminDown": 9,
    "avgDailyBcastsRateRx": "0.009%",
    "avgDailyBcastsRateTx": "0.000%",
    "avgDailyBcastsRx": "3k",
    "avgDailyBcastsTx": "0",
    "avgDailyPctsRx": "43,099k",
    "avgDailyPctsTx": "43,359k",
    "contact": {

```



```

        "html": "<A
HREF=\"mailto:noc@pathsolutions.com\">noc@pathsolutions.com</A>"
    },
    "contactId": "22932832",
    "contactPhone": "1-888-555-2883",
    "costAmortMonths": "48",
    "costAnnualSupport": "$459",
    "costMonthOper": "$121.21",
    "costProcurement": "$3,982",
    "deployDate": "5/18/2016",
    "description": "EdgeOS v1.10.1.5067575.180305.1804",
    "devIp": "10.86.0.2",
    "devName": {
        "cssCell": "switch-a-green",
        "hint": "EdgeOS v1.10.1.5067575.180305.1804",
        "href": "Devices.html?d=1",
        "iconhint": "Type:\t\tFirewall\nManufacturer:\tUbiquiti
Networks\nModel:\t\t\nSoftware:\t\n",
        "iconhref": "assets/img/firewall.svg",
        "value": "hqfw1"
    },
    "expDate": "03-04-2020",
    "firmware": "",
    "hardware": "",
    "holdTime": "-",
    "int": 21,
    "lastPollBcastsRateRx": "0.023%",
    "lastPollBcastsRateTx": "0.000%",
    "location": "Santa Clara HQ",
    "manage": {
        "component": "telnet-ssh-http-https-syslog",
        "http": true,
        "https": true,
        "ip": "10.86.0.2",
        "ssh": true,
        "syslog": 1,
        "telnet": true
    },
    "manufacturer": {
        "hint": "0",
        "value": "Ubiquiti Networks"
    },
    "mfgDate": {
        "hint": "(none)",
        "value": "-"
    }

```




```

    },
    "model": {
      "hint": "entPhysicalModelName:\t-na-\nentPhysicalName:\t-na-
\nentPhysicalDescr:\t-na-",
      "value": ""
    },
    "operDown": 15,
    "priority": "-",
    "protocol": "-",
    "psuAlarmThres": "-",
    "psuConsumpt": "-",
    "psuGroup": "-",
    "psuRate": "-",
    "psuStatus": "-",
    "psuUtil": "-",
    "rootBridge": "-",
    "rootCost": "-",
    "rootPort": "-",
    "serialNum": "",
    "snmpVer": "v2c",
    "software": "",
    "topologyChanges": "-",
    "topologyLastChange": "-",
    "uptime": "31d 11h 57m",
    "version": "-"
  },
  "...",
],
"title": "HQ-Firewall"
},
{
  "rows": [
    {
      "adminDown": 0,
      "avgDailyBcastsRateRx": "11.891%",
      "avgDailyBcastsRateTx": "5.338%",
      "avgDailyBcastsRx": "203,584k",
      "avgDailyBcastsTx": "78,611k",
      "avgDailyPctsRx": "1,508,456k",
      "avgDailyPctsTx": "1,393,993k",
      "contact": {
        "html": "<A
HREF=\"mailto:noc@pathsolutions.com\">noc@pathsolutions.com</A>"
      },
      "contactId": "F-483823-01",

```



```

    "contactPhone": "1-800-555-3412",
    "costAmortMonths": "48",
    "costAnnualSupport": "$682",
    "costMonthOper": "$103.44",
    "costProcurement": "$2,237",
    "deployDate": "4/19/2015",
    "description": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM
R.10.06 (/sw/code/build/nemo(ndx))",
    "devIp": "10.0.0.20",
    "devName": {
        "cssCell": "switch-a-green",
        "hint": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM
R.10.06 (/sw/code/build/nemo(ndx))",
        "href": "Devices.html?d=3",
        "iconhint": "Type:\t\tLayer-2 Switch\nManufacturer:\tHewlett-
Packard\nModel:\t\tJ9085A\nSoftware:\tR.11.22\n",
        "iconhref": "assets/img/switch.svg",
        "value": "Chardonnay"
    },
    "expDate": "11-23-2020",
    "firmware": {
        "hint": "R.10.06",
        "value": "R.10.06"
    },
    "hardware": "",
    "holdTime": 600,
    "int": 29,
    "lastPollBcastsRateRx": "60.546%",
    "lastPollBcastsRateTx": "45.345%",
    "location": "new york",
    "manage": {
        "component": "telnet-ssh-http-https-syslog",
        "http": true,
        "https": true,
        "ip": "10.0.0.20",
        "ssh": true,
        "syslog": 3,
        "telnet": true
    },
    "manufacturer": {
        "hint": "1",
        "value": "Hewlett-Packard"
    },
    "mfgDate": {
        "hint": "CN810ZT3QY ",

```



```

        "value": "3/3/2008"
    },
    "model": {
        "hint":
"entPhysicalModelName:\tJ9085A\nentPhysicalName:\tChassis\nentPhysicalDescr:\tProCurve
e J9085A Switch 2610-24",
        "value": "J9085A"
    },
    "operDown": 25,
    "priority": 32768,
    "protocol": {
        "hint": "3",
        "value": "ieee8021d"
    },
    "psuAlarmThres": "-",
    "psuConsumpt": "-",
    "psuGroup": "-",
    "psuRate": "-",
    "psuStatus": "-",
    "psuUtil": "-",
    "rootBridge": {
        "hint": "001db3e37fc0",
        "value": "8000001188c90c48"
    },
    "rootCost": 400023,
    "rootPort": "Int #23",
    "serialNum": "CN810ZT3QY ",
    "snmpVer": "v2c",
    "software": {
        "hint": "R.11.22",
        "value": "R.11.22"
    },
    "topologyChanges": 1336,
    "topologyLastChange": "4 days 09:50:15.70",
    "uptime": "0d 04h 57m",
    "version": {
        "hint": "0",
        "value": "-"
    }
},
{
    "adminDown": 3,
    "avgDailyBcastsRateRx": "0.884%",
    "avgDailyBcastsRateTx": "3.228%",
    "avgDailyBcastsRx": "1,473k",

```



```

    "avgDailyBcastsTx": "5,530k",
    "avgDailyPctsRx": "165,165k",
    "avgDailyPctsTx": "165,794k",
    "contact": {
      "html": "<A
HREF=\"mailto:noc@pathsolutions.com\">noc@pathsolutions.com</A>"
    },
    "contactId": "GH-47382933",
    "contactPhone": "1-888-555-8900",
    "costAmortMonths": "60",
    "costAnnualSupport": "$482",
    "costMonthOper": "$103.18",
    "costProcurement": "$3,781",
    "deployDate": "6/25/2015",
    "description": "Cisco IOS Software [Denali], Catalyst L3 Switch
Software (CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE
(fc1)\r\nTechnical Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-
2017 by Cisco Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
    "devIp": "10.0.0.1",
    "devName": {
      "cssCell": "switch-a-red",
      "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software
(CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical
Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco
Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
      "href": "Devices.html?d=4",
      "iconhint": "Type:\t\tMultilayer Switch\nManufacturer:\tCisco
Systems, Inc\nModel:\t\tWS-C3650-24PS-E\nSoftware:\tDenali 16.3.5b\n",
      "iconhref": "assets/img/mls.svg",
      "value": "Syrah"
    },
    "expDate": "08-14-2020",
    "firmware": {
      "hint": "0.1",
      "value": "0.1"
    },
    "hardware": "V01",
    "holdTime": 100,
    "int": 37,
    "lastPollBcastsRateRx": "1.917%",
    "lastPollBcastsRateTx": "4.536%",
    "location": "\"Santa Clara\"",
    "manage": {
      "component": "telnet-ssh-http-https-syslog",
      "http": true,

```



```

        "https": true,
        "ip": "10.0.0.1",
        "ssh": true,
        "syslog": 4,
        "telnet": true
    },
    "manufacturer": {
        "hint": "1000",
        "value": "Cisco Systems, Inc"
    },
    "mfgDate": {
        "hint": "FD01845E18S",
        "value": "11/3/2014"
    },
    "model": {
        "hint": "entPhysicalModelName:\tWS-C3650-24PS-
E\nentPhysicalName:\tSwitch 1\nentPhysicalDescr:\tWS-C3650-24PS-E",
        "value": "WS-C3650-24PS-E"
    },
    "operDown": 9,
    "priority": 32769,
    "protocol": {
        "hint": "3",
        "value": "ieee8021d"
    },
    "psuAlarmThres": "-n/a-",
    "psuConsumpt": "8 W",
    "psuGroup": 1,
    "psuRate": "780 W",
    "psuStatus": "On",
    "psuUtil": "1%",
    "rootBridge": {
        "hint": "a0ecf9d05100",
        "value": "8000001188c90c48"
    },
    "rootCost": 200023,
    "rootPort": "Int #23",
    "serialNum": "FD01845E18S",
    "snmpVer": "v2c",
    "software": {
        "hint": "Denali 16.3.5b",
        "value": "Denali 16.3.5b"
    },
    "topologyChanges": 136,
    "topologyLastChange": "4 days 09:51:00.00",

```



```

        "uptime": "59d 13h 43m",
        "version": {
            "hint": "0",
            "value": "-"
        }
    },
    "...",
],
    "title": "HQ"
},
    "...",
],
"totals": {
    "admin": "54",
    "device": "51",
    "interface": "1,094",
    "oper": "729",
    "operating": "2,749",
    "procurement": "80,948",
    "support": "13,923"
}
}

```

- Query string: *d=0*

```

{
    "addition": [
        "traffic"
    ],
    "allowLockWeb": 0,
    "deviceName": "hqp500",
    "graphs": [
        "util",
        "bcasts",
        "..."
    ],
    "interfaceConnectedColumn": {
        "hint": "These are the switches that know of this interface's MAC address",
        "title": "Switch interfaces showing this MAC address"
    },
    "nextDevice": 1,
    "notes": [
        [
            "4/4/2018 5:26:03 PM",
            "SYSTEM",
            "..."
        ]
    ]
}

```



```

    ],
    [
        "4/4/2018 5:20:58 PM",
        "SYSTEM",
        "...",
    ],
    "...",
],
"oidGraphs": [],
"tableDevice": {
    "adminDown": 10,
    "avgDailyBcastsRateRx": "0.000%",
    "avgDailyBcastsRateTx": "0.000%",
    "avgDailyBcastsRx": "0",
    "avgDailyBcastsTx": "0",
    "avgDailyPctsRx": "11,868k",
    "avgDailyPctsTx": "11,825k",
    "contact": {
        "html": "<A
    HREF=\"mailto:itops@pathsolutions.com\">itops@pathsolutions.com</A>"
    },
    "contactId": "B-4837DG",
    "contactPhone": "1-888-555-2883",
    "costAmortMonths": "60",
    "costAnnualSupport": "$389",
    "costMonthOper": "$112.77",
    "costProcurement": "$4,821",
    "deployDate": "1/5/2017",
    "description": "Palo Alto Networks PA-500 series firewall",
    "devIp": "10.0.0.7",
    "devName": {
        "cssCell": "switch-a-green",
        "hint": "Palo Alto Networks PA-500 series firewall",
        "href": "Devices.html?d=0",
        "iconhint": "Type:\t\tFirewall\nManufacturer:\tPalo Alto
    Networks\nModel:\t\tPA-500\nSoftware:\t8.0.6\n",
        "iconhref": "assets/img/firewall.svg",
        "value": "hqp500"
    },
    },
    "expDate": "06-17-2019",
    "firmware": {
        "hint": "",
        "value": ""
    },
    },
    "hardware": "2.1",

```



```
"holdTime": "-",
"int": 15,
"lastPollBcastsRateRx": "0.000%",
"lastPollBcastsRateTx": "0.000%",
"location": "Santa Clara",
"manage": {
  "component": "telnet-ssh-http-https-syslog",
  "http": true,
  "https": true,
  "ip": "10.0.0.7",
  "ssh": true,
  "syslog": 0,
  "telnet": true
},
"manufacturer": {
  "hint": "1",
  "value": "Palo Alto Networks"
},
"mfgDate": {
  "hint": "009401003580",
  "value": "-"
},
"model": {
  "hint": "entPhysicalModelName:\tPA-500\nentPhysicalName:\tPA-500\nentPhysicalDescr:\tPA-500",
  "value": "PA-500"
},
"operDown": 10,
"priority": "-",
"protocol": "-",
"psuAlarmThres": "-",
"psuConsumpt": "-",
"psuGroup": "-",
"psuRate": "-",
"psuStatus": "-",
"psuUtil": "-",
"rootBridge": "-",
"rootCost": "-",
"rootPort": "-",
"serialNum": "009401003580",
"snmpVer": "v2c",
"software": {
  "hint": "8.0.6",
  "value": "8.0.6"
},
},
```




```

    "topologyChanges": "-",
    "topologyLastChange": "-",
    "uptime": "165d 19h 51m",
    "version": "-"
  },
  "tableInterface": [
    {
      "avgPctSize": "-",
      "connDevMaxDraw": "-",
      "connDevPoeClass": "-",
      "connDevPriority": "-",
      "connected": "",
      "description": {
        "hint": "ifName:\tdedicated-ha1\nifDescr:\tdedicated-ha1\n",
        "value": "dedicated-ha1: dedicated-ha1"
      },
      "designatedBridge": "-",
      "designatedCost": "-",
      "designatedPort": "-",
      "designatedRoot": "-",
      "duplex": {
        "value": "-"
      },
      "favorite": {
        "confirm": "Add this interface to the Favorites tab?",
        "href": "favorites.html?d=0&i=1&seed=38220495",
        "value": "Favorite"
      },
      "forwardTransactions": "-",
      "histBcastPercentRx": "0.000%",
      "histBcastPercentTx": "0.000%",
      "ignoreInt": {
        "confirm": "Are you sure you want to remove this interface from
monitoring?",
        "href": "Devices.html?d=0&del=1&seed=38220495",
        "value": "Ignore"
      },
      "intIp": {
        "hint": "",
        "value": ""
      },
      "intName": {
        "css": "switch-a",
        "href": "Devices.html?d=0&i=1",
        "value": "INT#1"
      }
    }
  ]
}

```



```
},
"intSpeed": {
  "hint": "ifSpeed: 0\nifHighSpeed: 0",
  "value": "-"
},
"lastPollBcastPercentRx": "0.000%",
"lastPollBcastPercentTx": "0.000%",
"lastPollUtilPercentRx": "0.000%",
"lastPollUtilPercentTx": "0.000%",
"macAddr": "",
"mtu": 0,
"peakDailyErrorRate": {
  "value": "0.000%"
},
"peakDailyUtilRx": {
  "hint": "ifInOctets:\t0\nifHCInOctets:\t0",
  "value": "0.000%"
},
"peakDailyUtilTx": {
  "hint": "ifOutOctets:\t0\nifHCOctets:\t0",
  "value": "0.000%"
},
"poe": {
  "hint": "PoEGood=FALSE",
  "value": "-"
},
"poePsu": "-",
"poeState": "-",
"queueType": {
  "hint": "",
  "value": ""
},
"remoteDevInt": {
  "hint": "",
  "value": ""
},
"remoteDevIp": "",
"remoteDevMethod": "",
"remoteDevName": {
  "hint": "",
  "value": ""
},
"remoteDevPlatform": "",
"stateLastChange": {
  "hint": "sysUpTime:\t1432747716\nifLastChange:\t0",
```



```

        "value": "165 days 19:51:17.16"
    },
    "stateType": {
        "hint": "Type: 6",
        "value": "ethernetCsmacd"
    },
    "statusAdmin": "down",
    "statusOper": "down",
    "stpEnable": "-",
    "stpPathCost": "-",
    "stpPriority": "-",
    "stpState": "-",
    "x": {
        "css": "switch-a",
        "hint": 2
    }
},
{
    "avgPctSize": "-",
    "connDevMaxDraw": "-",
    "connDevPoeClass": "-",
    "connDevPriority": "-",
    "connected": "",
    "description": {
        "hint": "ifName:\tdedicated-ha2\nifDescr:\tdedicated-ha2\n",
        "value": "dedicated-ha2: dedicated-ha2"
    },
    "designatedBridge": "-",
    "designatedCost": "-",
    "designatedPort": "-",
    "designatedRoot": "-",
    "duplex": {
        "value": "-"
    },
    "favorite": {
        "confirm": "Add this interface to the Favorites tab?",
        "href": "favorites.html?d=0&i=2&seed=38220495",
        "value": "Favorite"
    },
    "forwardTransactions": "-",
    "histBcastPercentRx": "0.000%",
    "histBcastPercentTx": "0.000%",
    "ignoreInt": {
        "confirm": "Are you sure you want to remove this interface from
monitoring?",

```



```
        "href": "Devices.html?d=0&del=2&seed=38220495",
        "value": "Ignore"
    },
    "intIp": {
        "hint": "",
        "value": ""
    },
    "intName": {
        "css": "switch-a",
        "href": "Devices.html?d=0&i=2",
        "value": "INT#2"
    },
    "intSpeed": {
        "hint": "ifSpeed: 0\nifHighSpeed: 0",
        "value": "-"
    },
    "lastPollBcastPercentRx": "0.000%",
    "lastPollBcastPercentTx": "0.000%",
    "lastPollUtilPercentRx": "0.000%",
    "lastPollUtilPercentTx": "0.000%",
    "macAddr": "",
    "mtu": 0,
    "peakDailyErrorRate": {
        "value": "0.000%"
    },
    "peakDailyUtilRx": {
        "hint": "ifInOctets:\t0\nifHCInOctets:\t0",
        "value": "0.000%"
    },
    "peakDailyUtilTx": {
        "hint": "ifOutOctets:\t0\nifHCOctets:\t0",
        "value": "0.000%"
    },
    "poe": {
        "hint": "PoEGood=FALSE",
        "value": "-"
    },
    "poePsu": "-",
    "poeState": "-",
    "queueType": {
        "hint": "",
        "value": ""
    },
    "remoteDevInt": {
        "hint": "",
```



```

        "value": ""
    },
    "remoteDevIp": "",
    "remoteDevMethod": "",
    "remoteDevName": {
        "hint": "",
        "value": ""
    },
    "remoteDevPlatform": "",
    "stateLastChange": {
        "hint": "sysUpTime:\t1432747716\nifLastChange:\t0",
        "value": "165 days 19:51:17.16"
    },
    "stateType": {
        "hint": "Type: 6",
        "value": "ethernetCsmacd"
    },
    "statusAdmin": "down",
    "statusOper": "down",
    "stpEnable": "-",
    "stpPathCost": "-",
    "stpPriority": "-",
    "stpState": "-",
    "x": {
        "css": "switch-a",
        "hint": 2
    }
},
"..."
],
"trafficData": {
    "historical": {
        "broadcastsRx": "0",
        "broadcastsTx": "0",
        "packetsRx": "1,958,319,000",
        "packetsTx": "1,951,211,000",
        "percentBroadcastsRx": "0.000%",
        "percentBroadcastsTx": "0.000%"
    },
    "lastpoll": {
        "broadcastsRx": "0",
        "broadcastsTx": "0",
        "packetsRx": "47,268",
        "packetsTx": "48,232",
        "percentBroadcastsRx": "0.000%",

```



```

        "percentBroadcastsTx": "0.000%"
    }
}
}

• Query string: d=0&i=1
{
  "addition": [],
  "allowLockWeb": 0,
  "countersTable": {
    "rows": [
      {
        "errorCounter": {
          "iframe": "Help/ifInUnknownProtos.html",
          "value": "Inbound Unknown Protocols"
        },
        "errorsCurrent": "0",
        "errorsPerPctAvg": "-",
        "errorsPerPctCurrent": "-",
        "errorsTotal": {
          "hint": "Current: \t0\nPrevious:\t0",
          "value": "0"
        },
        "tracked": "",
        "type": "Common"
      },
      {
        "errorCounter": {
          "iframe": "Help/ifInDiscards.html",
          "value": "Inbound Discards"
        },
        "errorsCurrent": "0",
        "errorsPerPctAvg": "-",
        "errorsPerPctCurrent": "-",
        "errorsTotal": {
          "hint": "Current: \t0\nPrevious:\t0",
          "value": "0"
        },
        "tracked": {
          "css": "switch-a-black"
        },
        "type": "Rare"
      },
      "...
    ],

```



```

    "totals": {
      "errorsCurrent": "0",
      "errorsPerPctAvg": "0.000%",
      "errorsPerPctCurrent": "0.000%",
      "errorsTotal": "0"
    },
    "deviceName": "hqa500",
    "errSuppressed": false,
    "errors": [
      {
        "img": "assets/img/prescription/turtle.png",
        "title": "No errors detected on this interface",
        "value": "No prescription recommended."
      }
    ],
    "excelInterfaceUrl": "SwMonInt0-1E.xlsx",
    "interfaceConnectedColumn": {
      "hint": "These are the switches that know of this interface's MAC address",
      "title": "Switch interfaces showing this MAC address"
    },
    "interfaceName": "INT#1",
    "netflow": false,
    "nextDevice": 1,
    "nextInterface": 2,
    "notes": null,
    "oidGraphs": [],
    "queueGraphs": [],
    "tableDevice": {
      "adminDown": 10,
      "avgDailyBcastsRateRx": "0.000%",
      "avgDailyBcastsRateTx": "0.000%",
      "avgDailyBcastsRx": "0",
      "avgDailyBcastsTx": "0",
      "avgDailyPctsRx": "11,868k",
      "avgDailyPctsTx": "11,825k",
      "contact": {
        "html": "<A
HREF=\"mailto:itops@pathsolutions.com\">itops@pathsolutions.com</A>"
      },
      "contactId": "B-4837DG",
      "contactPhone": "1-888-555-2883",
      "costAmortMonths": "60",
      "costAnnualSupport": "$389",
      "costMonthOper": "$112.77",

```



```
"costProcurement": "$4,821",
"deployDate": "1/5/2017",
"description": "Palo Alto Networks PA-500 series firewall",
"devIp": "10.0.0.7",
"devName": {
  "cssCell": "switch-a-green",
  "hint": "Palo Alto Networks PA-500 series firewall",
  "href": "Devices.html?d=0",
  "iconhint": "Type:\t\tFirewall\nManufacturer:\tPalo Alto
Networks\nModel:\t\tPA-500\nSoftware:\t8.0.6\n",
  "iconhref": "assets/img/firewall.svg",
  "value": "hqpa500"
},
"expDate": "06-17-2019",
"firmware": {
  "hint": "",
  "value": ""
},
"hardware": "2.1",
"holdTime": "-",
"int": 15,
"lastPollBcastsRateRx": "0.000%",
"lastPollBcastsRateTx": "0.000%",
"location": "Santa Clara",
"manage": {
  "component": "telnet-ssh-http-https-syslog",
  "http": true,
  "https": true,
  "ip": "10.0.0.7",
  "ssh": true,
  "syslog": 0,
  "telnet": true
},
"manufacturer": {
  "hint": "1",
  "value": "Palo Alto Networks"
},
"mfgDate": {
  "hint": "009401003580",
  "value": "-"
},
"model": {
  "hint": "entPhysicalModelName:\tPA-500\nentPhysicalName:\tPA-
500\nentPhysicalDescr:\tPA-500",
  "value": "PA-500"
```




```
    },
    "operDown": 10,
    "priority": "-",
    "protocol": "-",
    "psuAlarmThres": "-",
    "psuConsumpt": "-",
    "psuGroup": "-",
    "psuRate": "-",
    "psuStatus": "-",
    "psuUtil": "-",
    "rootBridge": "-",
    "rootCost": "-",
    "rootPort": "-",
    "serialNum": "009401003580",
    "snmpVer": "v2c",
    "software": {
      "hint": "8.0.6",
      "value": "8.0.6"
    },
    "topologyChanges": "-",
    "topologyLastChange": "-",
    "uptime": "165d 19h 51m",
    "version": "-"
  },
  "tableInterface": [
    {
      "avgPctSize": "-",
      "connDevMaxDraw": "-",
      "connDevPoeClass": "-",
      "connDevPriority": "-",
      "connected": "",
      "description": {
        "hint": "ifName:\tdedicated-ha1\nifDescr:\tdedicated-ha1\n",
        "value": "dedicated-ha1: dedicated-ha1"
      },
      "designatedBridge": "-",
      "designatedCost": "-",
      "designatedPort": "-",
      "designatedRoot": "-",
      "duplex": {
        "value": "-"
      },
      "favorite": {
        "confirm": "Add this interface to the Favorites tab?",
        "href": "favorites.html?d=0&i=1&seed=38222521",
      }
    }
  ]
}
```



```

        "value": "Favorite"
    },
    "forwardTransactions": "-",
    "histBcastPercentRx": "0.000%",
    "histBcastPercentTx": "0.000%",
    "ignoreInt": {
        "confirm": "Are you sure you want to remove this interface from
monitoring?",
        "href": "Devices.html?d=0&del=1&seed=38222521",
        "value": "Ignore"
    },
    "intIp": {
        "hint": "",
        "value": ""
    },
    "intName": {
        "css": "switch-a",
        "href": "Devices.html?d=0&i=1",
        "value": "INT#1"
    },
    "intSpeed": {
        "hint": "ifSpeed: 0\nifHighSpeed: 0",
        "value": "-"
    },
    "lastPollBcastPercentRx": "0.000%",
    "lastPollBcastPercentTx": "0.000%",
    "lastPollUtilPercentRx": "0.000%",
    "lastPollUtilPercentTx": "0.000%",
    "macAddr": "",
    "mtu": 0,
    "peakDailyErrorRate": {
        "value": "0.000%"
    },
    "peakDailyUtilRx": {
        "hint": "ifInOctets:\t0\nifHCInOctets:\t0",
        "value": "0.000%"
    },
    "peakDailyUtilTx": {
        "hint": "ifOutOctets:\t0\nifHCOctets:\t0",
        "value": "0.000%"
    },
    "poe": {
        "hint": "PoEGood=FALSE",
        "value": "-"
    },
    },

```



```

    "poePsu": "-",
    "poeState": "-",
    "queueType": {
        "hint": "",
        "value": ""
    },
    "remoteDevInt": {
        "hint": "",
        "value": ""
    },
    "remoteDevIp": "",
    "remoteDevMethod": "",
    "remoteDevName": {
        "hint": "",
        "value": ""
    },
    "remoteDevPlatform": "",
    "stateLastChange": {
        "hint": "sysUpTime:\t1432747716\nifLastChange:\t0",
        "value": "165 days 19:51:17.16"
    },
    "stateType": {
        "hint": "Type: 6",
        "value": "ethernetCsmacd"
    },
    "statusAdmin": "down",
    "statusOper": "down",
    "stpEnable": "-",
    "stpPathCost": "-",
    "stpPriority": "-",
    "stpState": "-",
    "x": {
        "css": "switch-a",
        "hint": 2
    }
},
],
"utilizationTable": [
    {
        "rx": "0",
        "title": "Min",
        "tx": "0"
    },
    {
        "rx": "0",

```



```

        "title": "Avg",
        "tx": "0"
    },
    "...
]
}

```

- Query string: `d=0&i=1&t=h`

```

{
  "addition": [],
  "allowLockWeb": 0,
  "countersTable": {
    "rows": [
      {
        "errorCounter": {
          "iframe": "Help/ifInUnknownProtos.html",
          "value": "Inbound Unknown Protocols"
        },
        "errorsCurrent": "0",
        "errorsPerPctAvg": "-",
        "errorsPerPctCurrent": "-",
        "errorsTotal": {
          "hint": "Current: \t0\nPrevious:\t0",
          "value": "0"
        },
        "tracked": "",
        "type": "Common"
      },
      {
        "errorCounter": {
          "iframe": "Help/ifInDiscards.html",
          "value": "Inbound Discards"
        },
        "errorsCurrent": "0",
        "errorsPerPctAvg": "-",
        "errorsPerPctCurrent": "-",
        "errorsTotal": {
          "hint": "Current: \t0\nPrevious:\t0",
          "value": "0"
        },
        "tracked": {
          "css": "switch-a-black"
        },
        "type": "Rare"
      }
    ]
  }
}

```



```

        "...",
    ],
    "totals": {
        "errorsCurrent": "0",
        "errorsPerPctAvg": "0.000%",
        "errorsPerPctCurrent": "0.000%",
        "errorsTotal": "0"
    }
},
"deviceName": "hqp500",
"errSuppressed": false,
"errors": [
    {
        "img": "assets/img/prescription/turtle.png",
        "title": "No errors detected on this interface",
        "value": "No prescription recommended."
    }
],
"excelInterfaceUrl": "SwMonInt0-1E.xlsx",
"interfaceConnectedColumn": {
    "hint": "These are the switches that know of this interface's MAC address",
    "title": "Switch interfaces showing this MAC address"
},
"interfaceName": "INT#1",
"netflow": false,
"nextDevice": 1,
"nextInterface": 2,
"notes": null,
"oidGraphs": [],
"queueGraphs": [],
"tableDevice": {
    "adminDown": 10,
    "avgDailyBcastsRateRx": "0.000%",
    "avgDailyBcastsRateTx": "0.000%",
    "avgDailyBcastsRx": "0",
    "avgDailyBcastsTx": "0",
    "avgDailyPctsRx": "11,869k",
    "avgDailyPctsTx": "11,826k",
    "contact": {
        "html": "<A
HREF=\"mailto:itops@pathsolutions.com\">itops@pathsolutions.com</A>"
    },
    "contactId": "B-4837DG",
    "contactPhone": "1-888-555-2883",
    "costAmortMonths": "60",

```



```
"costAnnualSupport": "$389",
"costMonthOper": "$112.77",
"costProcurement": "$4,821",
"deployDate": "1/5/2017",
"description": "Palo Alto Networks PA-500 series firewall",
"devIp": "10.0.0.7",
"devName": {
  "cssCell": "switch-a-green",
  "hint": "Palo Alto Networks PA-500 series firewall",
  "href": "Devices.html?d=0",
  "iconhint": "Type:\t\tFirewall\nManufacturer:\tPalo Alto
Networks\nModel:\t\tPA-500\nSoftware:\t8.0.6\n",
  "iconhref": "assets/img/firewall.svg",
  "value": "hqpa500"
},
"expDate": "06-17-2019",
"firmware": {
  "hint": "",
  "value": ""
},
"hardware": "2.1",
"holdTime": "-",
"int": 15,
"lastPollBcastsRateRx": "0.000%",
"lastPollBcastsRateTx": "0.000%",
"location": "Santa Clara",
"manage": {
  "component": "telnet-ssh-http-https-syslog",
  "http": true,
  "https": true,
  "ip": "10.0.0.7",
  "ssh": true,
  "syslog": 0,
  "telnet": true
},
"manufacturer": {
  "hint": "1",
  "value": "Palo Alto Networks"
},
"mfgDate": {
  "hint": "009401003580",
  "value": "-"
},
"model": {
  "hint": "entPhysicalModelName:\tPA-500\nentPhysicalName:\tPA-
```



```
500\nentPhysicalDescr:\tPA-500",
  "value": "PA-500"
},
"operDown": 10,
"priority": "-",
"protocol": "-",
"psuAlarmThres": "-",
"psuConsumpt": "-",
"psuGroup": "-",
"psuRate": "-",
"psuStatus": "-",
"psuUtil": "-",
"rootBridge": "-",
"rootCost": "-",
"rootPort": "-",
"serialNum": "009401003580",
"snmpVer": "v2c",
"software": {
  "hint": "8.0.6",
  "value": "8.0.6"
},
"topologyChanges": "-",
"topologyLastChange": "-",
"uptime": "165d 20h 01m",
"version": "-",
},
"tableInterface": [
{
  "avgPctSize": "-",
  "connDevMaxDraw": "-",
  "connDevPoeClass": "-",
  "connDevPriority": "-",
  "connected": "",
  "description": {
    "hint": "ifName:\tdedicated-ha1\nifDescr:\tdedicated-ha1\n",
    "value": "dedicated-ha1: dedicated-ha1"
  },
},
"designatedBridge": "-",
"designatedCost": "-",
"designatedPort": "-",
"designatedRoot": "-",
"duplex": {
  "value": "-"
},
},
"favorite": {
```



```

        "confirm": "Add this interface to the Favorites tab?",
        "href": "favorites.html?d=0&i=1&seed=38638887",
        "value": "Favorite"
    },
    "forwardTransactions": "-",
    "histBcastPercentRx": "0.000%",
    "histBcastPercentTx": "0.000%",
    "ignoreInt": {
        "confirm": "Are you sure you want to remove this interface from
monitoring?",
        "href": "Devices.html?d=0&del=1&seed=38638887",
        "value": "Ignore"
    },
    "intIp": {
        "hint": "",
        "value": ""
    },
    "intName": {
        "css": "switch-a",
        "href": "Devices.html?d=0&i=1",
        "value": "INT#1"
    },
    "intSpeed": {
        "hint": "ifSpeed: 0\nifHighSpeed: 0",
        "value": "-"
    },
    "lastPollBcastPercentRx": "0.000%",
    "lastPollBcastPercentTx": "0.000%",
    "lastPollUtilPercentRx": "0.000%",
    "lastPollUtilPercentTx": "0.000%",
    "macAddr": "",
    "mtu": 0,
    "peakDailyErrorRate": {
        "value": "0.000%"
    },
    "peakDailyUtilRx": {
        "hint": "ifInOctets:\t0\nifHCInOctets:\t0",
        "value": "0.000%"
    },
    "peakDailyUtilTx": {
        "hint": "ifOutOctets:\t0\nifHCOctets:\t0",
        "value": "0.000%"
    },
    "poe": {
        "hint": "PoEGood=FALSE",

```




```

        "value": "-",
    },
    "poePsu": "-",
    "poeState": "-",
    "queueType": {
        "hint": "",
        "value": ""
    },
    "remoteDevInt": {
        "hint": "",
        "value": ""
    },
    "remoteDevIp": "",
    "remoteDevMethod": "",
    "remoteDevName": {
        "hint": "",
        "value": ""
    },
    "remoteDevPlatform": "",
    "stateLastChange": {
        "hint": "sysUpTime:\t1432807798\nifLastChange:\t0",
        "value": "165 days 20:01:17.98"
    },
    "stateType": {
        "hint": "Type: 6",
        "value": "ethernetCsmacd"
    },
    "statusAdmin": "down",
    "statusOper": "down",
    "stpEnable": "-",
    "stpPathCost": "-",
    "stpPriority": "-",
    "stpState": "-",
    "x": {
        "css": "switch-a",
        "hint": 2
    }
}
]
}

```

/DevicesGraphData.json

Devices graph data



Query parameters

Name	Type	Description
d	number	device number
i	number	interface number
t	string	

Response properties

- object
 - ipAddress: string
 - pollDelay: number
 - interfaceNum: number
 - ifSpeed: number
 - ifSpeedKbPct: number
 - data: array<object> (the graph data)
 - pollTime: number
 - latencyMax: number
 - latencyAvg: number
 - jitter: number
 - loss: number
 - mos: number
 - bitsTx: number
 - bitsRx: number
 - broadcastsTx: number
 - broadcastsRx: number

Response examples

- Query string: `d=0`

```
{
  "data": [
    {
      "pollTime": 1527912122,
      "latencyMax": 3,
      "latencyAvg": 1,
      "jitter": 0,
      "loss": 0,
      "mos": 4.4,
      "bitsTx": 277,
      "bitsRx": 221,
    }
  ]
}
```



```

        "broadcastsTx": 0,
        "broadcastsRx": 0
    },
    {
        "pollTime": 1527912422,
        "latencyMax": 154,
        "latencyAvg": 10,
        "jitter": 0,
        "loss": 0,
        "mos": 4.399,
        "bitsTx": 279,
        "bitsRx": 223,
        "broadcastsTx": 0,
        "broadcastsRx": 0
    },
    "...
]
}

```

- Query string: *d=0&i=1*

```

{
  "ipAddress": "10.0.0.7",
  "pollDelay": 300000,
  "interfaceNum": 1,
  "ifSpeed": 0,
  "ifSpeedKbPct": 0,
  "data": [
    {
      "pollTime": 1527912122,
      "bitsTx": 0,
      "bitsRx": 0,
      "packetsTx": 0,
      "packetsRx": 0,
      "broadcastsTx": 0,
      "broadcastsRx": 0,
      "errors": 0
    },
    {
      "pollTime": 1527912422,
      "bitsTx": 0,
      "bitsRx": 0,
      "packetsTx": 0,
      "packetsRx": 0,
      "broadcastsTx": 0,
      "broadcastsRx": 0,

```



```

    "errors": 0
  },
  "...
]
}

```

/DevicesCurrent.json

Response properties

- object
 - currBitsRx: number
 - currBitsTx: number
 - currUtilRx: number
 - currUtilTx: number
 - dev: number
 - devIp: string
 - devName: string
 - int: number
 - intDescr: string
 - intName: string
 - intSpeed: string
 - nextDev: string
 - nextInt: string
 - valid: boolean

Response examples

- Query string: *d=0&i=1*

```

{
  "currBitsRx": 0,
  "currBitsTx": 0,
  "currUtilRx": 0,
  "currUtilTx": 0,
  "dev": 0,
  "devIp": "10.0.0.7",
  "devName": "hqa500",
  "int": 1,
  "intDescr": "dedicated-ha1: dedicated-ha1",
  "intName": "Int #1",
  "intSpeed": "-Unknown-",
  "nextDev": "d=1&i=1",
  "nextInt": "d=0&i=2",

```



```
"valid": true
}
```

/DevicesDNSLookup.json

DNS Lookup

Query parameters

Name	Type	Description
ip	string	the IP to lookup

Response properties

- object
 - hostname: string

Response examples

- Query string: `ip=10.86.0.2`

```
{
  "hostname": "hqfw1.pathsolutions.local"
}
```

PAGE: Diagram.html

/diagramlayer3.json

Diagram data

Response properties

- object
 - devices: array<object>
 - image: string
 - ipAddress: string
 - location: string
 - manufacturer: string
 - model: string
 - name: string
 - softwareOS: string
 - url: string
 - links: array<object>
 - LastChanged: string



- MTU: number
- QoS: string
- bandwidth: number
- errors: number
- intDescription: string
- intNum: number
- ipAddress: string
- receive: number
- source: string
- target: string
- transmit: number
- url: string
- warning: number
- subnets: array<object>
 - image: string
 - mask: string
 - name: string
 - subnet: string

Response examples

- Query string: (empty)

```
{
  "devices": [
    {
      "image": "Graphics/Firewall.png",
      "ipAddress": "10.86.0.2",
      "location": "Santa Clara HQ",
      "manufacturer": "Ubiquiti Networks",
      "model": "",
      "name": "hqfw1",
      "softwareOS": "",
      "url": "Devices.html?d=1"
    },
    {
      "image": "Graphics/MultilayerSwitch.png",
      "ipAddress": "10.0.0.1",
      "location": "\"Santa Clara\"",
      "manufacturer": "Cisco Systems, Inc",
      "model": "WS-C3650-24PS-E",
      "name": "Syrah",
    }
  ]
}
```



```

        "softwareOS": "Denali 16.3.5b",
        "url": "Devices.html?d=4"
    },
    "...",
],
"links": [
    {
        "LastChanged": "29 days 12:21:04.55",
        "MTU": 1500,
        "QoS": "",
        "bandwidth": 1000000000,
        "errors": 0,
        "intDescription": "eth0: eth0 (Internet)",
        "intNum": 6,
        "ipAddress": "104.8.32.105",
        "receive": 0,
        "source": "hqfw1",
        "target": "Cloud-104.8.32.104",
        "transmit": 0,
        "url": "Devices.html?d=1&i=6",
        "warning": 0
    },
    {
        "LastChanged": "31 days 10:52:30.81",
        "MTU": 1500,
        "QoS": "",
        "bandwidth": 1000000000,
        "errors": 0,
        "intDescription": "eth1: eth1 (Local)",
        "intNum": 7,
        "ipAddress": "10.86.0.2",
        "receive": 0,
        "source": "hqfw1",
        "target": "Cloud-10.86.0.0",
        "transmit": 0,
        "url": "Devices.html?d=1&i=7",
        "warning": 0
    },
    "...",
],
"subnets": [
    {
        "image": "Graphics/cloud.png",
        "mask": "255.255.255.0",
        "name": "Cloud-10.86.0.0",
    }
]

```



```
        "subnet": "10.86.0.0"
    },
    {
        "image": "Graphics/cloud.png",
        "mask": "255.255.255.252",
        "name": "Cloud-10.255.12.0",
        "subnet": "10.255.12.0"
    },
    "...
]
}
```

PAGE: Favorites.html

/favorites.json

Favorite interfaces list

Response properties

- array<object>
 - currUtil: object (link and options to the current viewer for the device)
 - component: string
 - height: number
 - href: string
 - value: string
 - width: number
 - description: string
 - devIp: string
 - devName: object (device name, url of the link and styles (red dot or green))
 - css: string
 - hint: string
 - href: string
 - value: string
 - intNum: object (specific interface of the device, with link)
 - href: string
 - value: string
 - lastErr: string
 - lastUtilRx: string
 - lastUtilTx: string



Response examples

- Query string: (empty)

```
[
{
  "currUtil": {
    "component": "open-window",
    "height": 240,
    "href": "DevicesCurrent.html?d=0&i=5",
    "value": "View Current",
    "width": 850
  },
  "description": "mgmt: mgmt",
  "devIp": "10.0.0.7",
  "devName": {
    "css": "switch-a-green",
    "hint": "Palo Alto Networks PA-500 series firewall",
    "href": "Devices.html?d=0",
    "value": "hqpa500"
  },
  "intNum": {
    "href": "Devices.html?d=0&i=5",
    "value": "Int #5"
  },
  "lastErr": "0.00%",
  "lastUtilRx": "0.00%",
  "lastUtilTx": "0.01%"
},
{
  "currUtil": {
    "component": "open-window",
    "height": 240,
    "href": "DevicesCurrent.html?d=1&i=7",
    "value": "View Current",
    "width": 850
  },
  "description": "eth1: eth1 (Local)",
  "devIp": "10.86.0.2",
  "devName": {
    "css": "switch-a-green",
    "hint": "EdgeOS v1.10.1.5067575.180305.1804",
    "href": "Devices.html?d=1",
    "value": "hqfw1"
  },
  "intNum": {
```



```

        "href": "Devices.html?d=1&i=7",
        "value": "Int #7"
    },
    "lastErr": "0.00%",
    "lastUtilRx": "0.01%",
    "lastUtilTx": "0.01%"
},
"..."
]

```

PAGE: Gremlins.html

/Gremlins.json

Gremlins data

Query parameters

Name	Type	Description
GroupName	string	interface group to query
timeslot	number	timeslot to inspect

Response properties

- object
 - ago: object (timing information)
 - frequency: number
 - interval: number
 - timeslot: number
 - select: object (query parameters)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<object> (results table html rows)
 - html: string

Response examples

- Query string: *GroupName=ALL×lot=3*

```

{
  "ago": {
    "frequency": 300,

```



```

    "interval": 122400,
    "timeslot": 3
  },
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
        "All",
        "HQ-Firewall",
        "..."
      ]
    }
  },
  "table": [
    {
      "html": "<CODE><A HREF=\"SwMonInt1-12D.htm\">Int #12</A></CODE>(Gi1/0/10:
GigabitEthernet1/0/10) on device <CODE><A HREF=\"SwMonX1S.htm\">Syrah</A></CODE>
(10.0.0.1) had <CODE><span class=\"text-red\">96.231%</span></CODE> Transmit and
<CODE><span class=\"text-red\">81.370%</span></CODE> Receive utilization during this
period"
    },
    {
      "html": "Device <CODE><A HREF=\"SwMonX2S.htm\">Chardonnay</A></CODE>
(10.0.0.20) became unreachable"
    },
    "..."
  ]
}

```

PAGE: Interfaces.html

/InterfacesHalfDuplex.json

Half duplex interfaces list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string



- 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
- 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string



- hint: string
- href: string
- value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- [illegible]



```
    "100Meg",  
    "1Gig",  
    "Above100Gig"  
  ],  
  "title": "Half Duplex Interface List sorted by Peak Daily Error Rate",  
  "total": 5  
}
```

/InterfacesTrunks.json

Trunks interfaces list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string



- value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- Query string: (empty)


```
{
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "H3C Comware Platform Software\r\nComware software, Version 3.10,
Release 1702P42\r\nH3C S5600-26C-PWR Product Version S5600-
1702P42\r\n\r\nCopyright(c) 2004-2012 Hangzhou H3C Tech. Co.,Ltd. All rights
reserved.\r\n",
        "href": "Devices.html?d=22",
        "value": "Corvina"
      }
    ],
  ],
}
```



```

        "10.0.0.49",
        "...",
    ],
    [
        {
            "css": "switch-a-green",
            "hint": "ProCurve J9085A Switch 2610-24, revision R.11.70, ROM R.10.06 (/sw/code/build/nemo(R_ndx))",
            "href": "Devices.html?d=5",
            "value": "Pinot"
        },
        "10.0.0.21",
        "...",
    ],
    "...",
],
"tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "...",
],
"title": "Interfaces With More than 4 MAC addresses sorted by number of MAC addresses",
"total": 23
}

```

/InterfacesUnknownProto.json

Unknown protocol interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string



- value: string
- 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)



- title: string
- total: number

Response examples

- Query string: (empty)

```
{
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
        "href": "Devices.html?d=24",
        "value": "SantaClara"
      },
      "10.0.0.2",
      "..."
    ],
    [
      {
        "css": "switch-a-green",
        "hint": "Cisco IOS Software, C3750 Software (C3750-IPBASEK9-M), Version
12.2(55)SE7, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2013 by Cisco Systems,
Inc.\r\nCompiled Mon 28-Jan-13 10:16 by prod_rel_team",
        "href": "Devices.html?d=12",
        "value": "Baileys"
      },
      "10.0.0.32",
      "..."
    ],
    "..."
  ],
  "tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "..."
  ],
  "title": "Interfaces Currently Showing Unknown Protocols sorted by Peak Daily Error
Rate",
  "total": 6
}
```



/InterfacesSub10Meg.json

Interfaces sub 10 meg

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string



- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- Query string: (empty)


```
{
  "table": [
    [
      {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
        "href": "Devices.html?d=30",
        "value": "LOIRE"
      },
      "10.60.0.1",
      "..."
    ],
    [
      {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
```



```
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
    "href": "Devices.html?d=24",
    "value": "SantaClara"
  },
  "10.0.0.2",
  "...",
],
"...",
],
"tabsSpeed": [
  "Sub10Meg",
  "10Meg",
  "...",
],
"title": "Under 10 MegInterface List sorted by Peak Daily Utilization Rate",
"total": 8
}
```

/Interfaces10Meg.json

10 meg interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string



- value: string
- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number



Response examples

- Query string: (empty)

```
{
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "Ruckus Wireless Inc (C) 2006 ",
        "href": "Devices.html?d=32",
        "value": "RuckusAP"
      },
      "10.0.0.6",
      "..."
    ],
    [
      {
        "css": "switch-a-green",
        "hint": "Ruckus Wireless Inc (C) 2006 ",
        "href": "Devices.html?d=32",
        "value": "RuckusAP"
      },
      "10.0.0.6",
      "..."
    ],
    "..."
  ],
  "tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "..."
  ],
  "title": "10 MegInterface List sorted by Peak Daily Utilization Rate",
  "total": 10
}
```

/Interfaces100Meg.json

100 meg interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)



- css: string
 - hint: string
 - href: string
 - value: string
- 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
- 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string



- href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- Query string: (empty)


```
{
  "table": [
    [
      {
        "css": "switch-a-red",
        "hint": "Ethernet Routing Switch 4850GTS-PWR+  HW:10      FW:5.6.2.1
SW:v5.6.3.025 BN:25 (c) Avaya Networks",
        "href": "Devices.html?d=18",
        "value": "Sauvignon"
      },
      "10.0.0.43",
      "..."
    ],
    [
      {
        "css": "switch-a-green",
        "hint": "ProCurve J9087A Switch 2610-24-PWR, revision R.11.121, ROM
R.10.06 (/sw/code/build/nemo)",
        "href": "Devices.html?d=8",
        "value": "Burgundy"
      },
      "10.0.0.19",
      "..."
    ],
    "..."
  ],
  "tabsSpeed": [
    "Sub10Meg",
    "10Meg",
  ]
}
```



```
    "..."  
  ],  
  "title": "100 MegInterface List sorted by Peak Daily Utilization Rate",  
  "total": 101  
}
```

/Interfaces1Gig.json

1 gig interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 5: string|object (peak daily utilization tx)



- css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- *Query string: (empty)*

```
{
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "EdgeOS v1.10.1.5067575.180305.1804",
        "href": "Devices.html?d=46",
        "value": "TX-HomeFW"
      },
      "10.51.0.1",
      "..."
    ],
    [
      {
```



```

        "css": "switch-a-green",
        "hint": "EdgeOS v1.10.1.5067575.180305.1804",
        "href": "Devices.html?d=46",
        "value": "TX-HomeFW"
    },
    "10.51.0.1",
    "...",
],
"...",
],
"tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "...",
],
"title": "1 GigabitInterface List sorted by Peak Daily Utilization Rate",
"total": 44
}

```

/InterfacesAbove100Gig.json

100 gig interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string



- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number



Response examples

- Query string: (empty)


```
{
  "table": [
    [
      {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software
(CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical
Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco
Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
        "href": "Devices.html?d=4",
        "value": "Syrah"
      },
      "10.0.0.1",
      "..."
    ]
  ],
  "tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "..."
  ],
  "title": "Above 100 GigabitInterface List sorted by Peak Daily Utilization Rate",
  "total": 1
}
```

/InterfacesOperDown.json

Operationally down interface list

Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string



- href: string
 - value: string
- 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
- 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
- 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
- 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string
 - value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string



- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- Query string: (empty)

```
{
  "table": [
    [
      {
        "css": "switch-a",
        "hint": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM R.10.06 (/sw/code/build/nemo(ndx))",
        "href": "Devices.html?d=3",
        "value": "Chardonnay"
      },
      "10.0.0.20",
      "..."
    ],
    [
      {
        "css": "switch-a",
        "hint": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM R.10.06 (/sw/code/build/nemo(ndx))",
        "href": "Devices.html?d=3",
        "value": "Chardonnay"
      },
      "10.0.0.20",
      "..."
    ],
    "..."
  ],
  "tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "..."
  ],
  "title": "Operationally Down Interface List sorted by Last Used",
  "total": 729
}
```

/InterfacesAdminDown.json

Administratively down interface list



Response properties

- object
 - table: array<array<string|object>> (interface list)
 - 0: string|object (device name)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 1: string|object (device IP address)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 2: string|object (interface name and link)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 3: string|object (device description)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 4: string|object (peak daily error rate with styling)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 5: string|object (peak daily utilization tx)
 - css: string
 - hint: string
 - href: string
 - value: string
 - 6: string|object (peak daily utilization rx)
 - css: string
 - hint: string
 - href: string



- value: string
- 7: string|object (interface speed)
 - css: string
 - hint: string
 - href: string
 - value: string
- 8: string|object (duplex)
 - css: string
 - hint: string
 - href: string
 - value: string
- tabsSpeed: array<string> (speeds to generate tabs for)
- title: string
- total: number

Response examples

- Query string: (*empty*)


```
{
  "table": [
    [
      {
        "css": "switch-a",
        "hint": "Cisco IOS Software, C3750 Software (C3750-IPBASEK9-M), Version
12.2(55)SE7, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2013 by Cisco Systems,
Inc.\r\nCompiled Mon 28-Jan-13 10:16 by prod_rel_team",
        "href": "Devices.html?d=12",
        "value": "Baileys"
      },
      "10.0.0.32",
      "..."
    ],
    [
      {
        "css": "switch-a",
        "hint": "Cisco IOS Software, C3750 Software (C3750-IPBASEK9-M), Version
12.2(55)SE7, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2013 by Cisco Systems,
Inc.\r\nCompiled Mon 28-Jan-13 10:16 by prod_rel_team",
        "href": "Devices.html?d=12",
        "value": "Baileys"
      }
    ]
  ]
}
```



```

        },
        "10.0.0.32",
        "...",
    ],
    "...",
],
"tabsSpeed": [
    "Sub10Meg",
    "10Meg",
    "...",
],
"title": "Administratively Down Interface List sorted by Last Used",
"total": 54
}

```

PAGE: Internet.html

/Internet.json

Internet health and connectivity data

Response properties

- object
 - internet: object (internet connectivity status)
 - css: string
 - hint: string
 - value: string
 - localDNS: object (local DNS status)
 - css: string
 - hint: string
 - value: string
 - paths: array<object> (connectivity data)
 - hops: array<object>
 - delay: number
 - dev: number
 - devtype: string
 - dns: string
 - ip: string
 - reached: boolean
 - prescription: array<object>
 - img: string



- title: string
- value: string
- remoteDNS: object (remote DNS status)
 - css: string
 - hint: string
 - value: string

Response examples

- Query string: (empty)


```
{
  "internet": {
    "css": "switch-a-green",
    "hint": "Ping: 6",
    "value": "UP"
  },
  "localDNS": {
    "css": "switch-a-green",
    "hint": "www.google.com: 172.217.6.36",
    "value": "UP"
  },
  "paths": [
    {
      "hops": [
        {
          "delay": 7,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 1,
          "dev": 1,
          "devtype": "firewall",
          "dns": "hqfw1",
          "ip": "10.86.0.2"
        },
        "..."
      ],
      "reached": true
    }
  ],
  "prescription": [
```



```
{
  "img": "assets/img/prescription/turtle.png",
  "title": "Internet is Healthy",
  "value": "DNS is responding both locally and remotely, and connectivity is
valid to the cloud."
},
"remoteDNS": {
  "css": "switch-a-green",
  "hint": "www.google.com: 216.58.194.36",
  "value": "UP"
}
}
```

PAGE: Issues.html

/Issues.json

Problematic interfaces data

Query parameters

Name	Type	Description
GroupName	string	interface group

Response properties

- object
 - select: object (query parameters)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<object> (interface list)
 - avgDailyErrorRate: string
 - description: object
 - html: string
 - devIp: string
 - devName: object
 - css: string
 - hint: string
 - href: string
 - value: string



- intName: string
- intSpeed: string
- mac: string
- peakDailyErrorRate: string
- peakDailyUtilRx: string
- peakDailyUtilTx: string
- textAboveTable: string
- textBelowTable: string

Response examples

- Query string: (empty)


```
{
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
        "All",
        "HQ-Firewall",
        "..."
      ]
    }
  },
  "table": [
    {
      "avgDailyErrorRate": "-",
      "description": {
        "html": "ARP cache entry on this device for 10.10.0.10 does not match others&nbsp;<A HREF=\"Tools.html?IPtoMAC=10.10.0.10\">Check</A>"
      },
      "devIp": "172.17.2.5",
      "devName": {
        "css": "switch-a-c",
        "hint": "Cisco IOS Software, C2960 Software (C2960-LANLITEK9-M), Version 15.0(2)SE11, RELEASE SOFTWARE (fc3)\r\nTechnical Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco Systems, Inc.\r\nCompiled Sat 19-Aug-17 09:34 by prod_rel_team",
        "href": "Devices.html?d=45",
        "value": "txsw2"
      },
      "intName": "-na-",
      "intSpeed": "-",
      "mac": "-",
    }
  ]
}
```



```

        "peakDailyErrorRate": "-",
        "peakDailyUtilRx": "-",
        "peakDailyUtilTx": "-"
    },
    {
        "avgDailyErrorRate": "-",
        "description": {
            "html": "ARP cache entry on this device for 10.51.0.38 does not match
others&nbsp;<A HREF=\"Tools.html?IPtoMAC=10.51.0.38\">Check</A>"
        },
        "devIp": "172.17.2.5",
        "devName": {
            "css": "switch-a-c",
            "hint": "Cisco IOS Software, C2960 Software (C2960-LANLITEK9-M), Version
15.0(2)SE11, RELEASE SOFTWARE (fc3)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco Systems,
Inc.\r\nCompiled Sat 19-Aug-17 09:34 by prod_rel_team",
            "href": "Devices.html?d=45",
            "value": "txsw2"
        },
        "intName": "-na-",
        "intSpeed": "-",
        "mac": "-",
        "peakDailyErrorRate": "-",
        "peakDailyUtilRx": "-",
        "peakDailyUtilTx": "-"
    },
    "...
],
"textAboveTable": "Interfaces with peak daily utilization rates greater than 90% or
error rate greater than 5%",
"textBelowTable": "<b>2</b> ARP cache entry problems, and <b>12</b> total interfaces
listed"
}

```

PAGE: Map.html

/Map.json

Configuration settings for map page

Query parameters

Name	Type	Description
tab	number	



Response properties

- object
 - data: object
 - MapGraphic: string
 - demo: boolean
 - mapNum: number
 - sounds: boolean
 - startX: number
 - startY: number
 - updateInterval: number
 - programName: string
 - tabs: array<string>

Response examples

- Query string: (*empty*)

```
{
  "data": {
    "MapGraphic": "Map.jpg",
    "demo": false,
    "mapNum": 0,
    "sounds": true,
    "startX": -122,
    "startY": -466,
    "updateInterval": 5000
  },
  "programName": "TotalView",
  "tabs": [
    "Config"
  ]
}
```

/MapCurrent.json

Current state of the nodes and lines to be drawn on the map

Query parameters

Name	Type	Description
tab	number	



Response properties

- object
 - config_id: number
 - dot_0: number
 - dot_1: number
 - dot_10: number
 - dot_11: number
 - dot_12: number
 - dot_13: number
 - dot_14: number
 - dot_15: number
 - dot_2: number
 - dot_3: number
 - dot_4: number
 - dot_5: number
 - dot_6: number
 - dot_7: number
 - dot_8: number
 - dot_9: number
 - line_0: number
 - line_1: number
 - line_10: number
 - line_11: number
 - line_12: number
 - line_13: number
 - line_14: number
 - line_15: number
 - line_16: number
 - line_17: number
 - line_18: number
 - line_19: number
 - line_2: number
 - line_20: number
 - line_21: number
 - line_22: number
 - line_23: number
 - line_24: number



- line_25: number
- line_26: number
- line_27: number
- line_28: number
- line_29: number
- line_3: number
- line_30: number
- line_31: number
- line_32: number
- line_33: number
- line_34: number
- line_35: number
- line_4: number
- line_5: number
- line_6: number
- line_7: number
- line_8: number
- line_9: number

Response examples

- Query string: *tab=0*

```
{
  "config_id": 1999,
  "dot_0": 0,
  "dot_1": 0,
  "dot_10": 0,
  "dot_11": 0,
  "dot_12": 0,
  "dot_13": 0,
  "dot_14": 0,
  "dot_15": 0,
  "dot_2": 0,
  "dot_3": 0,
  "dot_4": 0,
  "dot_5": 0,
  "dot_6": 0,
  "dot_7": 0,
  "dot_8": 0,
  "dot_9": 0,
  "line_0": -2,
```



```
"line_1": -2,  
"line_10": -2,  
"line_11": -2,  
"line_12": -2,  
"line_13": -2,  
"line_14": -2,  
"line_15": -2,  
"line_16": -2,  
"line_17": -2,  
"line_18": -2,  
"line_19": -2,  
"line_2": -2,  
"line_20": -2,  
"line_21": -2,  
"line_22": -2,  
"line_23": -2,  
"line_24": -2,  
"line_25": -2,  
"line_26": -2,  
"line_27": -2,  
"line_28": -2,  
"line_29": -2,  
"line_3": -2,  
"line_30": -2,  
"line_31": -2,  
"line_32": -2,  
"line_33": -2,  
"line_34": -2,  
"line_35": -2,  
"line_4": -2,  
"line_5": -2,  
"line_6": -2,  
"line_7": -2,  
"line_8": -2,  
"line_9": -2  
}
```

/MapConfig.json

Nodes and lines to be drawn on the map, along with corresponding data

Query parameters

Name	Type	Description
tab	number	



Response properties

- object
 - config_id: number
 - lines: array<object>
 - deviceName: string
 - deviceNumber: number
 - id: string
 - interfaceDesc: string
 - interfaceNumber: number
 - ipAddress: string
 - points: array<number>
 - util: number
 - points: array<object>
 - color: string
 - deviceName: string
 - deviceNumber: number
 - id: string
 - ipAddress: string
 - points: array<number>
 - util: number

Response examples

- Query string: `tab=0`

```
{
  "config_id": 1999,
  "lines": [
    {
      "deviceName": "Syrah",
      "deviceNumber": 4,
      "id": "line_0",
      "interfaceDesc": "GigabitEthernet1/0/1",
      "interfaceNumber": 3,
      "ipAddress": "10.0.0.1",
      "points": [
        435,
        695,
        "...",
      ],
      "util": 0
    },
  ],
}
```



```
{
  "deviceName": "Syrah",
  "deviceNumber": 4,
  "id": "line_1",
  "interfaceDesc": "GigabitEthernet1/0/1",
  "interfaceNumber": 3,
  "ipAddress": "10.0.0.1",
  "points": [
    430,
    709,
    "..."
  ],
  "util": 0
},
"..."
],
"points": [
  {
    "color": "#FF0000",
    "deviceName": "Syrah",
    "deviceNumber": 4,
    "id": "dot_0",
    "ipAddress": "10.0.0.1",
    "points": [
      674,
      674
    ],
    "util": 1
  },
  {
    "color": "#FF0000",
    "deviceName": "SantaClara",
    "deviceNumber": 24,
    "id": "dot_1",
    "ipAddress": "10.0.0.2",
    "points": [
      433,
      616
    ],
    "util": 1
  },
  "..."
]
}
```



PAGE: Mos.html**/MOS.json**

Round-Trip MOS Score from TotalView to Network Devices

Query parameters

Name	Type	Description
GroupName	string	

Response properties

- object
 - select: object (query parameters)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<object> (device list with mos scores)
 - devIp: string
 - devName: object
 - css: string
 - hint: string
 - href: string
 - value: string
 - mos: object
 - component: string
 - dev: number
 - stats: object
 - class: string
 - component: string
 - value: array<string>

Response examples

- *Query string: (empty)*

```
{
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
```



```

        "values": [
            "All",
            "HQ-Firewall",
            "..."
        ]
    },
    "table": [
        {
            "devIp": "10.0.0.7",
            "devName": {
                "css": "switch-a-green",
                "hint": "Interfaces:\t\t16\nPoll Timing:\t154\nPoll type:\tV2POLL64",
                "href": "Devices.html?d=0",
                "value": "hqa500"
            },
            "mos": {
                "component": "mos-graph",
                "dev": 0
            },
            "stats": {
                "class": "mos-td-table-stats",
                "component": "mos-stats-table",
                "value": [
                    "4.4",
                    "4.4",
                    "..."
                ]
            }
        },
        {
            "devIp": "10.86.0.2",
            "devName": {
                "css": "switch-a-green",
                "hint": "Interfaces:\t\t21\nPoll Timing:\t1273\nPoll type:\tV2POLL64",
                "href": "Devices.html?d=1",
                "value": "hqfw1"
            },
            "mos": {
                "component": "mos-graph",
                "dev": 1
            },
            "stats": {
                "class": "mos-td-table-stats",
                "component": "mos-stats-table",

```



```

    "value": [
      "4.4",
      "4.4",
      "...
    ]
  },
  "...
]
}

```

/MOSGraphData.json

MOS graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - pollDelay: number
 - data: array<object>
 - pollTime: number
 - [key: string]: number

Response examples

- Query string: D0-M/D1-M/D2-M/D3-M/D4-M/D5-M/D6-M/D7-M/D8-M/D9-M/D10-M/D11-M/D12-M/D13-M/D14-M/D15-M/D16-M/D17-M/D18-M/D19-M/D0-M/D1-M/D2-M/D3-M/D4-M/D5-M/D6-M/D7-M/D8-M/D9-M/D10-M/D11-M/D12-M/D13-M/D14-M/D15-M/D16-M/D17-M/D18-M/D19-M/D20-M/D21-M/D22-M/D24-M/D25-M/D26-M/D27-M/D28-M/D29-M/D30-M/D31-M/D32-M/D33-M/D34-M/D35-M/D36-M/D37-M/D38-M/D39-M/D40-M/D41-M/D42-M/D43-M/D44-M/D45-M/D46-M/D47-M/D48-M/D49-M/D50-M/D0-M/D1-M/D2-M/D3-M/D4-M/D5-M/D6-M/D7-M/D8-M/D9-M/D10-M/D11-M/D12-M/D13-M/D14-M/D15-M/D16-M/D17-M/D18-M/D19-M=

```

{
  "pollDelay": 300,
  "data": [
    {
      "pollTime": 1527916492,
      "D0-M": 4.4,
      "D1-M": 4.39,

```



"D2-M": 4.4,
"D3-M": 4.4,
"D4-M": 4.4,
"D5-M": 4.4,
"D6-M": 4.4,
"D7-M": 4.4,
"D8-M": 4.399,
"D9-M": 4.4,
"D10-M": 4.368,
"D11-M": 4.4,
"D12-M": 4.4,
"D13-M": 4.4,
"D14-M": 4.336,
"D15-M": 4.393,
"D16-M": 4.4,
"D17-M": 4.4,
"D18-M": 4.4,
"D19-M": 4.384,
"D20-M": 4.39,
"D21-M": 4.208,
"D22-M": 4.385,
"D24-M": 4.4,
"D25-M": 4.4,
"D26-M": 4.397,
"D27-M": 4.397,
"D28-M": 4.276,
"D29-M": 4.4,
"D30-M": 4.4,
"D31-M": 4.4,
"D32-M": 4.4,
"D33-M": 4.394,
"D34-M": 4.358,
"D35-M": 4.393,
"D36-M": 4.379,
"D37-M": 4.391,
"D38-M": 4.368,
"D39-M": 4.392,
"D40-M": 4.385,
"D41-M": 4.385,
"D42-M": 4.391,
"D43-M": 4.379,
"D44-M": 4.375,
"D45-M": 4.375,
"D46-M": 4.369,
"D47-M": 4.381,



```
"D48-M": 3.444,  
"D49-M": 4.381,  
"D50-M": 4.33  
},  
{  
  "pollTime": 1527916792,  
  "D0-M": 4.4,  
  "D1-M": 4.388,  
  "D2-M": 4.4,  
  "D3-M": 4.4,  
  "D4-M": 4.4,  
  "D5-M": 4.4,  
  "D6-M": 4.4,  
  "D7-M": 4.4,  
  "D8-M": 4.398,  
  "D9-M": 4.4,  
  "D10-M": 4.358,  
  "D11-M": 4.4,  
  "D12-M": 4.4,  
  "D13-M": 4.4,  
  "D14-M": 4.322,  
  "D15-M": 4.393,  
  "D16-M": 4.4,  
  "D17-M": 4.4,  
  "D18-M": 4.4,  
  "D19-M": 4.382,  
  "D20-M": 4.389,  
  "D21-M": 4.208,  
  "D22-M": 4.384,  
  "D24-M": 4.4,  
  "D25-M": 4.4,  
  "D26-M": 4.397,  
  "D27-M": 4.396,  
  "D28-M": 4.139,  
  "D29-M": 4.4,  
  "D30-M": 4.4,  
  "D31-M": 4.4,  
  "D32-M": 4.4,  
  "D33-M": 4.394,  
  "D34-M": 4.357,  
  "D35-M": 4.393,  
  "D36-M": 4.382,  
  "D37-M": 4.39,  
  "D38-M": 4.367,  
  "D39-M": 4.393,
```



```
    "D40-M": 4.386,  
    "D41-M": 4.384,  
    "D42-M": 4.388,  
    "D43-M": 4.379,  
    "D44-M": 4.376,  
    "D45-M": 4.375,  
    "D46-M": 4.368,  
    "D47-M": 4.381,  
    "D48-M": 3.463,  
    "D49-M": 4.381,  
    "D50-M": 4.329  
  },  
  "..."  
]  
}
```

PAGE: Netflow.html

/NetflowFlows.json

Netflow data for an interface at a particular timestamp

Query parameters

Name	Type	Description
d	number	device number
i	number	interface number
f	string	
t	number	

Response properties

- array<object>
 - bps: string
 - bytes: string
 - duration: object
 - hint: string
 - value: string
 - in_int: number
 - in_ip: object
 - component: string
 - ip: string



- in_port: object
 - hint: string
 - value: string
- out_int: number
- out_ip: object
 - component: string
 - ip: string
- out_port: number
- packets: string
- prot: string
- tos: string

Response examples

- Query string: `d=24&f=rx&i=1&t=1527908220`

```
[
{
  "bps": "64,678",
  "bytes": "56,594",
  "duration": {
    "hint": "Start time: Thu May 31 16:35:27 2018\n",
    "value": "0 days 00:00:00.06"
  },
  "in_int": 1,
  "in_ip": {
    "component": "vlan-mac-ip",
    "ip": "10.20.0.1"
  },
  "in_port": {
    "hint": "SNMP",
    "value": "snmp(161)"
  },
  "out_int": 2,
  "out_ip": {
    "component": "vlan-mac-ip",
    "ip": "10.50.0.60"
  },
  "out_port": 57089,
  "packets": "132",
  "prot": "UDP",
  "tos": "0x00 (0)"
},
{
```



```

    "bps": "56,594",
    "bytes": "56,594",
    "duration": {
      "hint": "Start time: Thu May 31 16:34:36 2018\n",
      "value": "0 days 00:00:00.07"
    },
    "in_int": 1,
    "in_ip": {
      "component": "vlan-mac-ip",
      "ip": "10.20.0.1"
    },
    "in_port": {
      "hint": "SNMP",
      "value": "snmp(161)"
    },
    "out_int": 2,
    "out_ip": {
      "component": "vlan-mac-ip",
      "ip": "10.50.0.82"
    },
    "out_port": 63206,
    "packets": "132",
    "prot": "UDP",
    "tos": "0x00 (0)"
  },
  "...
]

```

/Netflow.json

Netflow page data

Response properties

- array<object>
 - device: object (device information)
 - component: string
 - description: string
 - dev: object
 - css: string
 - hint: string
 - href: string
 - value: string
 - int: object



- href: string
 - value: string
- protocols: object
 - component: string
 - dev: number
 - int: number
- utilizationGraph: object
 - dev: number
 - int: number

Response examples

- Query string: (empty)

```
[
{
  "device": {
    "component": "netflow-device-interface-description",
    "description": "Se0/0/0: Serial0/0/0",
    "dev": {
      "css": "switch-a-red",
      "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
      "href": "Devices.html?d=24",
      "value": "SantaClara"
    },
    "int": {
      "href": "Devices.html?d=24&i=1",
      "value": "Int #1"
    }
  },
  "protocols": {
    "component": "netflow-protocols-chart-pie",
    "dev": 24,
    "int": 1
  },
  "utilizationGraph": {
    "dev": 24,
    "int": 1
  }
},
{

```



```
"device": {
  "component": "netflow-device-interface-description",
  "description": "ethernet1/1: ethernet1/1",
  "dev": {
    "css": "switch-a-green",
    "hint": "Palo Alto Networks PA-500 series firewall",
    "href": "Devices.html?d=0",
    "value": "hqpa500"
  },
  "int": {
    "href": "Devices.html?d=0&i=6",
    "value": "Int #6"
  }
},
"protocols": {
  "component": "netflow-protocols-chart-pie",
  "dev": 0,
  "int": 6
},
"utilizationGraph": {
  "dev": 0,
  "int": 6
}
}
```

/NetflowGraphData.json

Netflow graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - pollDelay: number
 - data: array<object>
 - pollTime: number
 - [key: string]: number



Response examples

- Query string: *I24-1I/I24-10/I0-6I/I0-60=*

```
{
  "pollDelay": 300,
  "data": [
    {
      "pollTime": 1527908220,
      "I24-1I": 10480,
      "I24-10": 51653.332,
      "I0-6I": 102160,
      "I0-60": 111573.336
    },
    {
      "pollTime": 1527908520,
      "I24-1I": 10560,
      "I24-10": 53920,
      "I0-6I": 103066.664,
      "I0-60": 112666.664
    },
    "..."
  ]
}
```

PAGE: Nlt.html**/NLT.json**

Query parameters

Name	Type	Description
q	string	question

Response properties

- object
 - _description: response to question
 - result: string

Response examples

- Query string: *q=is the internet up?*

```
{
  "result": "The Internet is UP<br><br>"
}
```



PAGE: Path.html**/Path.json**

Info/settings for Path page

Response properties

- object
 - allowUpdate: boolean
 - updated: string

Response examples

- *Query string: (empty)*

```
{
  "allowUpdate": true,
  "updated": "6/2/2018, 8:35:54 PM"
}
```

/PathMap.json

Components that compose the path between IPs

Query parameters

Name	Type	Description
ipa	string	origin IP
ipb	string	destination IP
t	string	fh or rh (forward or reverse historical)

Response properties

- array<object>
 - component: string
 - html: string

Response examples

- *Query string: ipa=10.0.0.40&ipb=10.30.0.12&t=fh*

```
[
{
  "component": "html",
  "html": "<div class=\"debug\" style=\"display: block;\">FindNetMask: Finding
```



```

netmask for 10.0.0.40 using 255.255.255.0 (learned from Syrah)<br>FindMACForIP: MAC
address for 10.0.0.40 is 64-00-6a-94-a0-24 (found in ARP cache on
10.0.0.20)<br>SourceIP was found in an ARP cache.<br>FindMACForIP: MAC address for
10.30.0.12 is not in any monitored device ARP cache. MAC address could not be found
in any monitored device's ARP cache or interfaces<br>DestIP not found in any ARP
caches. Sending two pings to 10.30.0.12<br><br></div>"
},
{
  "component": "path-device-simple",
  "icon": "pc",
  "title": "Source IP: 10.0.0.40"
},
"..."
]

```

/PathGraphData.json

Path map graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - pollDelay: number
 - data: array<object>
 - pollTime: number
 - [key: string]: number

Response examples

- Query string: I5-7RE/I5-25TE/I4-8RE/I4-25TE/I8-25RE/I8-3TE/I24-2RE/D24-U/Q24-18-12038081/Q24-18-14844913/I24-1TE/I29-1RE/D29-U/I29-2TE=


```

{
  "pollDelay": 300,
  "data": [
    {
      "pollTime": 1527908220,
      "I5-7R": 0.004,
      "I5-7E": 0,
      "I5-25T": 0,

```



```
"I5-25E": 0,  
"I4-8R": 0,  
"I4-8E": 0,  
"I4-25T": 0,  
"I4-25E": 0,  
"I8-25R": 0,  
"I8-25E": 0,  
"I8-3T": 0.001,  
"I8-3E": 0.297,  
"I24-2R": 0.001,  
"I24-2E": 0.011,  
"D24-U": 2,  
"Q24-18-12038081M": 0,  
"Q24-18-12038081D": 0,  
"Q24-18-14844913M": 53650,  
"Q24-18-14844913D": 0,  
"I24-1T": 0.034,  
"I24-1E": 0,  
"I29-1R": 0,  
"I29-1E": 0,  
"D29-U": 0,  
"I29-2T": 0,  
"I29-2E": 0  
},  
{  
  "pollTime": 1527908520,  
  "I5-7R": 0.005,  
  "I5-7E": 0,  
  "I5-25T": 0,  
  "I5-25E": 0,  
  "I4-8R": 0,  
  "I4-8E": 0,  
  "I4-25T": 0,  
  "I4-25E": 0,  
  "I8-25R": 0,  
  "I8-25E": 0,  
  "I8-3T": 0.001,  
  "I8-3E": 0.224,  
  "I24-2R": 0.001,  
  "I24-2E": 0,  
  "D24-U": 2,  
  "Q24-18-12038081M": 0,  
  "Q24-18-12038081D": 0,  
  "Q24-18-14844913M": 54197,  
  "Q24-18-14844913D": 0,
```



```
    "I24-1T": 0.035,  
    "I24-1E": 0,  
    "I29-1R": 0,  
    "I29-1E": 0,  
    "D29-U": 0,  
    "I29-2T": 0,  
    "I29-2E": 0  
  },  
  "..."  
]  
}
```

PAGE: Phones.html

/Phones.json

VoIP devices data

Query parameters

Name	Type	Description
p	number	results page number

Response properties

- object
 - allowUpdate: boolean
 - excelUrl: string
 - pagination: object
 - page: number
 - recordsPerPage: number
 - recordsTotal: number
 - table: array<object> (voip device list)
 - description: string
 - devName: object
 - css: string
 - hint: string
 - href: string
 - value: string
 - duplex: object
 - hint: string
 - value: string



- intName: object
 - css: string
 - href: string
 - value: string
- mac: number
- mfg: object
 - hint: string
 - value: string
- peakDailyErrorRate: string
- peakDailyUtilRx: string
- peakDailyUtilTx: string
- platform: object
 - value: string
- poe: object
 - hint: string
 - value: string
- uptime: string
- vdIP: string
- vlan: object
 - hint: string
 - value: string
- updated: string

Response examples

- *Query string: (empty)*

```
{
  "allowUpdate": true,
  "excelUrl": "docs/SwMonMACList.xlsx",
  "pagination": {
    "page": 1,
    "recordsPerPage": 10,
    "recordsTotal": 16
  },
  "table": [
    {
      "description": "Gi1/0/10: GigabitEthernet1/0/10",
      "devName": {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software
```



```
(CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical
Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco
Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
    "href": "Devices.html?d=4",
    "value": "Syrah"
  },
  "duplex": {
    "hint": "dot3StatsDuplexStatus\tFull-Duplex
(3)\nifMauType\t\tNotSupported (0)",
    "value": "Full"
  },
  "intName": {
    "css": "switch-a-green",
    "href": "Devices.html?d=4&i=12",
    "value": "Int #12"
  },
  "mac": 1,
  "mfg": {
    "hint": "MAC Address: 0002fd65907a",
    "value": "Cisco"
  },
  "peakDailyErrorRate": "0.000%",
  "peakDailyUtilRx": "0.000%",
  "peakDailyUtilTx": "0.011%",
  "platform": {
    "value": "Cisco IP Phone 7960"
  },
  "poe": {
    "hint": "12.95 Watts to 25.50 Watts",
    "value": "25.50 W"
  },
  "uptime": "59 days 12:36:49.41",
  "vdIP": "10.0.0.57",
  "vlan": {
    "hint": "VLAN #1",
    "value": "default"
  }
},
{
  "description": "Gi1/0/4: GigabitEthernet1/0/4",
  "devName": {
    "css": "switch-a-red",
    "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software
(CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical
Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco
```



```

Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
    "href": "Devices.html?d=4",
    "value": "Syrah"
  },
  "duplex": {
    "hint": "dot3StatsDuplexStatus\tFull-Duplex
(3)\nifMauType\t\tNotSupported (0)",
    "value": "Full"
  },
  "intName": {
    "css": "switch-a-green",
    "href": "Devices.html?d=4&i=6",
    "value": "Int #6"
  },
  "mac": 1,
  "mfg": {
    "hint": "MAC Address: 001049006f60",
    "value": "ShoreTel"
  },
  "peakDailyErrorRate": "0.000%",
  "peakDailyUtilRx": "0.002%",
  "peakDailyUtilTx": "0.013%",
  "platform": {
    "value": "-"
  },
  "poe": "-",
  "uptime": "59 days 12:36:53.78",
  "vdIP": "10.0.0.71",
  "vlan": {
    "hint": "VLAN #1",
    "value": "default"
  }
},
"...
],
"updated": "6/2/2018, 8:35:54 PM"
}

```

PAGE: Predictors.html

/PredictorsBandwidth.json

Interfaces that will reach peak Tx or Rx utilization soonest



Response properties

- object
 - table: array<array<string|object>> (interface list, each interface composed as an array of fields ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string
 - total: number

Response examples

- Query string: (empty)

```
{
  "table": [
    [
      {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
        "href": "Devices.html?d=35",
        "value": "Monterey"
      },
      {
        "href": "Devices.html?d=35&i=1",
        "value": "Int #1"
      }
    ],
    [
      {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
        "href": "Devices.html?d=40",
        "value": "Pacifica"
      },
      {

```




```

        "href": "Devices.html?d=40&i=1",
        "value": "Int #1"
      },
      "...",
    ],
    "...",
  ],
  "title": "Interfaces that will reach peak Tx or Rx utilization soonest",
  "total": 116
}

```

/PredictorsCabling.json

Interfaces that have symbolErrors showing on the interface, sorted by Symbol Errors

Response properties

- object
 - table: array<array<string|object>> (interface list, each interface composed as an array of fields ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string
 - total: number

Response examples

- Query string: (*empty*)


```

{
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM R.10.06 (/sw/code/build/nemo(ndx))",
        "href": "Devices.html?d=3",
        "value": "Chardonnay"
      },
      {
        "href": "Devices.html?d=3&i=23",
        "value": "Int #23"
      }
    ]
  ]
}

```



```

    "...",
  ],
  [
    {
      "css": "switch-a-green",
      "hint": "ProCurve J9085A Switch 2610-24, revision R.11.70, ROM R.10.06 (/sw/code/build/nemo(R_ndx))",
      "href": "Devices.html?d=5",
      "value": "Pinot"
    },
    {
      "href": "Devices.html?d=5&i=19",
      "value": "Int #19"
    },
  ],
  "...",
],
"..."
],
"title": "Interfaces that have symbolErrors showing on the interface, sorted by Symbol Errors",
"total": 14
}

```

PAGE: Qos.html

/qos.json

QOS page interface list

Response properties

- array<object>
 - dailyUtil: object
 - component: string
 - dev: number
 - int: number
 - description: string
 - devName: object
 - css: string
 - hint: string
 - href: string
 - value: string
 - intName: object



- href: string
- value: string
- queueType: object
 - hint: string
 - value: string
- queues: string

Response examples

- Query string: (empty)

```
[
{
  "dailyUtil": {
    "component": "qos-graph",
    "dev": 24,
    "int": 1
  },
  "description": "Se0/0/0: Serial0/0/0",
  "devName": {
    "css": "switch-a-red",
    "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
    "href": "Devices.html?d=24",
    "value": "SantaClara"
  },
  "intName": {
    "href": "Devices.html?d=24&i=1",
    "value": "Int #1"
  },
  "queueType": {
    "hint": "Class-Based Quality of Service = 18",
    "value": "CBQoS"
  },
  "queues": "2"
},
{
  "dailyUtil": {
    "component": "qos-graph",
    "dev": 27,
    "int": 1
  },
  "description": "Se0/0/0: Serial0/0/0",
```



```

    "devName": {
      "css": "switch-a-green",
      "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
      "href": "Devices.html?d=27",
      "value": "Atlanta"
    },
    "intName": {
      "href": "Devices.html?d=27&i=1",
      "value": "Int #1"
    },
    "queueType": {
      "hint": "Class-Based Quality of Service = 18",
      "value": "CBQoS"
    },
    "queues": "6"
  },
  "...
]

```

/qosgraphdata.json

QOS interfaces relevant graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - pollDelay: number
 - data: array<object>
 - pollTime: number
 - [key: string]: number

Response examples

- Query string: *I24-1TR/I27-1TR/I29-1TR/I43-1TR/I44-2TR=*

```

{
  "pollDelay": 300,

```



```
"data": [  
  {  
    "pollTime": 1527907915,  
    "I24-1T": 0.035,  
    "I24-1R": 0.007,  
    "I27-1T": 0.023,  
    "I27-1R": 0.019,  
    "I29-1T": 0,  
    "I29-1R": 0,  
    "I43-1T": 0.001,  
    "I43-1R": 0.001,  
    "I44-2T": 0.001,  
    "I44-2R": 0.001  
  },  
  {  
    "pollTime": 1527908215,  
    "I24-1T": 0.034,  
    "I24-1R": 0.007,  
    "I27-1T": 0.022,  
    "I27-1R": 0.018,  
    "I29-1T": 0,  
    "I29-1R": 0,  
    "I43-1T": 0.001,  
    "I43-1R": 0.001,  
    "I44-2T": 0.001,  
    "I44-2R": 0.001  
  },  
  "..."  
]  
}
```

PAGE: Sdwan.html

/sdwan.json

SD-WAN page data

Response properties

- array<object>
 - address: string
 - avgLatency: string
 - hops: number
 - icon: string
 - l5mLatency: string



- lpChange: string
- online: boolean
- paths: array<object>
 - hops: array<object>
 - delay: number
 - dev: number
 - devtype: string
 - dns: string
 - ip: string
 - last_seen: number
 - reached: boolean
- server: number
- title: string

Response examples

- Query string: (*empty*)

```
[
{
  "address": "76.102.118.138",
  "avgLatency": "0 ms",
  "hops": 14,
  "icon": "Graphics/Comcast.png",
  "15mLatency": "0 ms",
  "lpChange": "0 days 00:05:43.35",
  "online": false,
  "paths": [
    {
      "hops": [
        {
          "delay": 5,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 0,
          "dev": 1,
          "devtype": "firewall",
          "dns": "hqfw1",
          "ip": "10.86.0.2"
        }
      ]
    }
  ]
}
```



```

        "...",
      ],
      "last_seen": 1528031166,
      "reached": false
    },
    {
      "hops": [
        {
          "delay": 7,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 0,
          "dev": 1,
          "devtype": "firewall",
          "dns": "hqfw1",
          "ip": "10.86.0.2"
        },
        "...",
      ],
      "last_seen": 1528013766,
      "reached": false
    },
    "...",
  ],
  "server": 0,
  "title": "SV-WAN"
},
{
  "address": "10.51.0.1",
  "avgLatency": "55 ms",
  "hops": 3,
  "icon": "Graphics/ATT.png",
  "l5mLatency": "68 ms",
  "lpChange": "0 days 15:45:04.44",
  "online": true,
  "paths": [
    {
      "hops": [
        {
          "delay": 8,
          "dev": 4,

```



```

        "devtype": "mls",
        "dns": "Syrah",
        "ip": "10.10.0.1"
    },
    {
        "delay": 1,
        "dev": 1,
        "devtype": "firewall",
        "dns": "hqfw1",
        "ip": "10.86.0.2"
    },
    "...",
],
"last_seen": 1528031106,
"reached": true
},
{
    "hops": [
        {
            "delay": 2,
            "dev": 4,
            "devtype": "mls",
            "dns": "Syrah",
            "ip": "10.10.0.1"
        },
        {
            "delay": 2,
            "dev": 1,
            "devtype": "firewall",
            "dns": "hqfw1",
            "ip": "10.86.0.2"
        },
        "...",
    ],
    "last_seen": 1527976882,
    "reached": false
},
    "...",
],
"server": 1,
"title": "TX-WAN"
}
]

```

/sdwangraphdata.json



SD-WAN graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - data: array<object>
 - [key: string]: number
 - pollTime: number
 - pollDelay: number

Response examples

- Query string: `C0-P/C0-L/C1-P/C1-L=`

```
{
  "data": [
    {
      "C0-L": 0,
      "C0-P": 0,
      "C1-L": 0,
      "C1-P": 56,
      "pollTime": 1527910460
    },
    {
      "C0-L": 0,
      "C0-P": 0,
      "C1-L": 0,
      "C1-P": 53,
      "pollTime": 1527910520
    },
    "...
  ],
  "pollDelay": 300
}
```

PAGE: Search.html

/search.json

Responses to general search queries



Query parameters

Name	Type	Description
q	string	the query

Response properties

- object
 - html: string
 - table: array<object> (result rows)
 - description: string
 - devName: object
 - css: string
 - hint: string
 - href: string
 - value: string
 - duplex: object
 - value: string
 - errorRate: string
 - intIp: string
 - intName: object
 - href: string
 - value: string
 - mac: number
 - speed: string
 - utilRx: string
 - utilTx: string
 - title: string

Response examples

- Query string: *q=fred*

```
{
  "html": "<b>1</b> total interfaces displayed",
  "table": [
    {
      "description": "Gi1/0/3: GigabitEthernet1/0/3 (Fred Server)",
      "devName": {
        "css": "switch-a-red",
        "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software
(CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical
```



```
Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco
Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
  "href": "Devices.html?d=4",
  "value": "Syrah"
},
"duplex": {
  "value": "Full"
},
"errorRate": "0.000%",
"intIp": "",
"intName": {
  "href": "Devices.html?d=4&i=5",
  "value": "Int #5"
},
"mac": 1,
"speed": "1,000,000,000",
"utilRx": "0.340%",
"utilTx": "0.021%"
}
],
"title": "Interface names that contain: fred"
}
```

PAGE: Siptrunks.html

/siptrunks.json

SIP-TRUNKS page data

Response properties

- array<object>
 - address: string
 - avgLatency: string
 - hops: number
 - icon: string
 - l5mLatency: string
 - lpChange: string
 - online: boolean
 - paths: array<object>
 - hops: array<object>
 - delay: number
 - dev: number



- devtype: string
 - dns: string
 - ip: string
- last_seen: number
- reached: boolean
- server: number
- title: string

Response examples

- Query string: (empty)

```
[
{
  "address": "global.tr.skype.com (13.107.8.2)",
  "avgLatency": "25 ms",
  "hops": 16,
  "icon": "Graphics/SkypeForBusiness.png",
  "15mLatency": "18 ms",
  "lpChange": "0 days 02:17:10.26",
  "online": true,
  "paths": [
    {
      "hops": [
        {
          "delay": 8,
          "dev": 4,
          "devtype": "mls",
          "dns": "Syrah",
          "ip": "10.10.0.1"
        },
        {
          "delay": 0,
          "dev": 1,
          "devtype": "firewall",
          "dns": "hqfw1",
          "ip": "10.86.0.2"
        }
      ],
      "...": ""
    },
    "last_seen": 1528030867,
    "reached": true
  },
  {
    "hops": [
```



```
{
  {
    "delay": 9,
    "dev": 4,
    "devtype": "mls",
    "dns": "Syrah",
    "ip": "10.10.0.1"
  },
  {
    "delay": 0,
    "dev": 1,
    "devtype": "firewall",
    "dns": "hqfw1",
    "ip": "10.86.0.2"
  },
  "...",
],
"last_seen": 1528030447,
"reached": true
},
"...",
],
"server": 0,
"title": "Skype for Business"
}
]
```

/siptrunksgraphdata.json

SIP-TRUNKS graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - data: array<object>
 - C0-L: number
 - C0-P: number
 - pollTime: number
 - pollDelay: number



Response examples

- Query string: *C0-P/C0-L=*

```
{
  "data": [
    {
      "C0-L": 0,
      "C0-P": 36,
      "pollTime": 1527910465
    },
    {
      "C0-L": 0,
      "C0-P": 21,
      "pollTime": 1527910525
    },
    "...",
  ],
  "pollDelay": 300
}
```

PAGE: Tools.html

/Tools.json

Tools page info/settings

Response properties

- object
 - allowUpdate: boolean
 - excelUrl: string
 - updated: string

Response examples

- Query string: *(empty)*

```
{
  "allowUpdate": true,
  "excelUrl": "docs/SwMonMACTable.xlsx",
  "updated": "6/2/2018, 8:35:54 PM"
}
```

/ToolsSubnets.json

Subnets in use



Response properties

- object
 - result: string
 - table: array<array<string>> (Subnet list, each subnet is an array with each element corresponding to a table field ltr)

Response examples

- Query string: (empty)

```
{
  "result": "Subnets in use",
  "table": [
    [
      "10.0.0.0",
      "255.255.255.0",
      "..."
    ],
    [
      "10.0.2.0",
      "255.255.255.0",
      "..."
    ],
    "..."
  ]
}
```

/ToolsVLAN.json

A list of devices with VLANs in use

Response properties

- array<array<string|object>>
 - css: string
 - hint: string
 - href: string
 - value: string

Response examples

- Query string: (empty)

```
[
  [
    {
```



```

        "hint": "ProCurve J9085A Switch 2610-24, revision R.11.22, ROM R.10.06
(/sw/code/build/nemo(ndx))",
        "href": "Devices.html?d=3",
        "value": "Chardonnay"
    },
    "10.0.0.20",
    "...",
],
[
    {
        "hint": "Cisco IOS Software [Denali], Catalyst L3 Switch Software (CAT3K_CAA-
UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco Systems,
Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
        "href": "Devices.html?d=4",
        "value": "Syrah"
    },
    "10.0.0.1",
    "...",
],
"...",
]

```

/ToolsIPtoMAC.json

Locates a specific MAC address for a provided IP or DNS name

Query parameters

Name	Type	Description
q	string	IP or DNS name

Response properties

- object
 - result: string (text to display at the top of the table/result description)
 - table: array<array<string|object>> (result rows, each row is an array where each item corresponds to a table field ltr)
 - css: string
 - hint: string
 - href: string
 - value: string



Response examples

- Query string: `q=10.0.0.40`

```
{
  "result": "10.0.0.40 was found",
  "table": [
    [
      "10.0.0.40",
      {
        "hint": "Dell Inc.",
        "href": "Tools.html?MACtoInt=64-00-6A-94-A0-24",
        "value": "64-00-6A-94-A0-24"
      }
    ],
    [
      "10.0.0.40",
      {
        "hint": "Dell Inc.",
        "href": "Tools.html?MACtoInt=64-00-6A-94-A0-24",
        "value": "64-00-6A-94-A0-24"
      }
    ],
    [
      "10.0.0.40",
      {
        "hint": "Dell Inc.",
        "href": "Tools.html?MACtoInt=64-00-6A-94-A0-24",
        "value": "64-00-6A-94-A0-24"
      }
    ]
  ]
}
```

/ToolsMACtoInt.json

Search all switch interfaces for a specific MAC address

Query parameters

Name	Type	Description
q	string	MAC address

Response properties

- object
 - table: array<array<string|object>> (list of switch interfaces, structured as an array of table fields, ltr)
 - title: string
 - href: string
 - value: string



- textBelowTable: string

Response examples

- Query string: `q=64-00-6A-94-A0-24`

```
{
  "table": [
    [
      {
        "href": "Devices.html?d=5",
        "title": "ProCurve J9085A Switch 2610-24, revision R.11.70, ROM R.10.06 (/sw/code/build/nemo(R_ndx))",
        "value": "Pinot"
      },
      "10.0.0.21",
      "..."
    ],
    [
      {
        "href": "Devices.html?d=4",
        "title": "Cisco IOS Software [Denali], Catalyst L3 Switch Software (CAT3K_CAA-UNIVERSALK9-M), Version 16.3.5b, RELEASE SOFTWARE (fc1)\r\nTechnical Support: http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2017 by Cisco Systems, Inc.\r\nCompiled Thu 02-Nov-17 11:07 ",
        "value": "Syrah"
      },
      "10.0.0.1",
      "..."
    ],
    "..."
  ],
  "textBelowTable": "Note: Since multiple interfaces were displayed, it is likely that the interface with only one MAC address on it is the specific interface with that MAC address. The other interfaces may be trunks that connect switches to other switches, and would thus have more than one MAC address on the interface."
}
```

/ToolsMACtoIP.json

Search all monitored ARP caches to locate a specific IP address for a provided MAC address

Query parameters

Name	Type	Description
q	string	MAC address



Response properties

- object
 - result: string (text to display at the top of the table/result description)
 - table: array<array<string|object>> (result rows, each row is an array where each item corresponds to a table field ltr)
 - css: string
 - hint: string
 - href: string
 - value: string

Response examples

- Query string: *q=64-00-6A-94-A0-24*

```
{
  "result": "64-00-6A-94-A0-24 was found",
  "table": [
    [
      {
        "hint": "Search for this MAC address on switch interfaces",
        "href": "Tools.html?MACtoInt=64-00-6A-94-A0-24",
        "value": "64-00-6A-94-A0-24"
      },
      "10.0.0.40 (calvin.pathsolutions.local)",
      "..."
    ],
    [
      {
        "hint": "Search for this MAC address on switch interfaces",
        "href": "Tools.html?MACtoInt=64-00-6A-94-A0-24",
        "value": "64-00-6A-94-A0-24"
      },
      "10.0.0.40 (calvin.pathsolutions.local)",
      "..."
    ],
    "..."
  ]
}
```

PAGE: Top10.html

/Top10Error.json

Top 10 Interfaces With Highest Daily Error Rates Sorted by Error Rate



Query parameters

Name	Type	Description
GroupName	string	interface group
scope	string	scope of the query (peak daily/last poll)

Response properties

- object
 - head: array<string> (field list)
 - select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - scope: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string

Response examples

- Query string: (*empty*)

```
{
  "head": [
    "name",
    "ip",
    "..."
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
```



```

        "All",
        "HQ-Firewall",
        "..."
    ],
    },
    "scope": {
        "title": "Scope:",
        "value": "Peak Daily",
        "values": [
            "Peak Daily",
            "Last Poll"
        ]
    },
    },
    "table": [
        [
            {
                "css": "switch-a-red",
                "hint": "24-Port Gigabit L2 Managed PoE Switch with 4 Combo SFP Slots",
                "href": "Devices.html?d=21",
                "value": "Bardolino"
            },
            "10.0.0.47",
            "..."
        ],
        [
            {
                "css": "switch-a-red",
                "hint": "UAP-AC-Pro-Gen2 3.9.27.8537",
                "href": "Devices.html?d=47",
                "value": "WinterAP"
            },
            "10.51.0.40",
            "..."
        ],
        "..."
    ],
    "title": "Top 10 Interfaces With Highest Daily Error Rates Sorted by Error Rate"
}

```

/Top10TxPct.json

Top 10 Interfaces With Highest Daily Transmitted Rates Sorted by Utilization



Query parameters

Name	Type	Description
GroupName	string	interface group
scope	string	scope of the query

Response properties

- object
 - head: array<string> (field list)
 - select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - scope: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string

Response examples

- Query string: (*empty*)

```
{
  "head": [
    "name",
    "ip",
    "..."
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
        "All",
        "HQ-Firewall",

```



```

        "...",
    ],
},
"scope": {
    "title": "Scope:",
    "value": "Peak Daily",
    "values": [
        "Peak Daily",
        "Last Poll",
        "...",
    ]
},
},
"table": [
    [
        {
            "css": "switch-a-red",
            "hint": "Cisco IOS Software, 2800 Software (C2800NM-IPVOICEK9-M), Version
15.1(1)T, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2010 by Cisco Systems,
Inc.\r\nCompiled Mon 22-Mar-10 01:25 by prod_rel_team",
            "href": "Devices.html?d=24",
            "value": "SantaClara"
        },
        "10.0.0.2",
        "...",
    ],
    [
        {
            "css": "switch-a-red",
            "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
            "href": "Devices.html?d=25",
            "value": "ALSACE"
        },
        "10.0.0.39",
        "...",
    ],
    "...",
],
"title": "Top 10 Interfaces With Highest Daily Transmitted Rates Sorted by
Utilization"
}

```



/Top10RxPct.json

Top 10 Interfaces With Highest Daily Received Rates Sorted by Utilization

Query parameters

Name	Type	Description
GroupName	string	interface group
scope	string	scope of the query

Response properties

- object
 - head: array<string> (field list)
 - select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - scope: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string

Response examples

- Query string: (*empty*)

```
{
  "head": [
    "name",
    "ip",
    "...",
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
```




```

        "value": "All",
        "values": [
            "All",
            "HQ-Firewall",
            "..."
        ]
    },
    "scope": {
        "title": "Scope:",
        "value": "Peak Daily",
        "values": [
            "Peak Daily",
            "Last Poll",
            "..."
        ]
    }
},
"table": [
    [
        {
            "css": "switch-a-red",
            "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
            "href": "Devices.html?d=30",
            "value": "LOIRE"
        },
        "10.60.0.1",
        "..."
    ],
    [
        {
            "css": "switch-a-red",
            "hint": "Cisco IOS Software, 1841 Software (C1841-ADVENTERPRISEK9-M),
Version 15.1(3)T3, RELEASE SOFTWARE (fc1)\r\nTechnical Support:
http://www.cisco.com/techsupport\r\nCopyright (c) 1986-2011 by Cisco Systems,
Inc.\r\nCompiled Wed 14-Dec-11 20:21 by prod_rel_team",
            "href": "Devices.html?d=35",
            "value": "Monterey"
        },
        "10.50.0.2",
        "..."
    ],
    "..."
]

```



```
],
"title": "Top 10 Interfaces With Highest Daily Received Rates Sorted by Utilization"
}
```

/Top10Latency.json

Top 10 Devices With the Highest Daily Latency Sorted by Latency

Query parameters

Name	Type	Description
GroupName	string	interface group

Response properties

- object
 - head: array<string> (field list)
 - select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string

Response examples

- Query string: (empty)


```
{
  "head": [
    "name",
    "ip",
    "..."
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
```



```

        "All",
        "HQ-Firewall",
        "..."
    ]
}
},
"table": [
    [
        {
            "css": "switch-a-green",
            "hint": "EPSON Built-in 11b/g/n & 10/100 Print Server",
            "href": "Devices.html?d=48",
            "value": "WinterPTR.thewinters.net"
        },
        "10.51.0.98",
        "..."
    ],
    [
        {
            "css": "switch-a-green",
            "hint": "ExtremeXOS (X440-8p) version 16.2.3.5 16.2.3.5 by release-
manager on Tue Apr 4 16:13:34 EDT 2017",
            "href": "Devices.html?d=28",
            "value": "stout"
        },
        "10.30.0.1",
        "..."
    ],
    "..."
],
"title": "Top 10 Devices With the Highest Daily Latency Sorted by Latency"
}

```

/Top10Jitter.json

Top 10 Devices With the Highest Daily Jitter Sorted by Jitter

Query parameters

Name	Type	Description
GroupName	string	interface group

Response properties

- object
 - head: array<string> (field list)



- select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
- table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
- title: string

Response examples

- Query string: (empty)

```
{
  "head": [
    "name",
    "ip",
    "..."
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
        "All",
        "HQ-Firewall",
        "..."
      ]
    }
  },
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "EPSON Built-in 11b/g/n & 10/100 Print Server",
        "href": "Devices.html?d=48",
        "value": "WinterPTR.thewinters.net"
      },
      "10.51.0.98",
      "..."
    ],
  ],
}
```



```
[
  {
    "css": "switch-a-red",
    "hint": "24-Port Gigabit L2 Managed PoE Switch with 4 Combo SFP Slots",
    "href": "Devices.html?d=21",
    "value": "Bardolino"
  },
  "10.0.0.47",
  "...",
],
"...",
],
"title": "Top 10 Devices With the Highest Daily Jitter Sorted by Jitter"
}
```

/Top10Loss.json

Top 10 Devices With the Highest Daily Loss Sorted by Loss

Query parameters

Name	Type	Description
GroupName	string	interface group

Response properties

- object
 - head: array<string> (field list)
 - select: object (query parameters, selected value and valid ones)
 - GroupName: object
 - title: string
 - value: string
 - values: array<string>
 - table: array<array<string|object>> (query results, structured as an array of table fields, ltr)
 - css: string
 - hint: string
 - href: string
 - value: string
 - title: string



Response examples

- Query string: (empty)

```
{
  "head": [
    "name",
    "ip",
    "..."
  ],
  "select": {
    "GroupName": {
      "title": "Group:",
      "value": "All",
      "values": [
        "All",
        "HQ-Firewall",
        "..."
      ]
    }
  },
  "table": [
    [
      {
        "css": "switch-a-green",
        "hint": "NEC BF100/24 Ethernet Switch",
        "href": "Devices.html?d=16",
        "value": "Lager"
      },
      "10.0.0.38",
      "..."
    ],
    [
      {
        "css": "switch-a-green",
        "hint": "000000000000000000,181;ONMENT",
        "href": "Devices.html?d=38",
        "value": "HPFC86BF"
      },
      "10.50.0.49",
      "..."
    ],
    "..."
  ],
  "title": "Top 10 Devices With the Highest Daily Loss Sorted by Loss"
}
```



PAGE: Voiptools.html**/VoIPTools.json**

Info/settings for VoIPTools page

Response properties

- object
 - allowUpdate: boolean
 - callSimulator: string (CallSimulator.exe binary url/path)
 - callSimulatorBatch: string (CallSimulatorBatchTool.exe binary url/path)
 - excelUrl: string (MACList spreadsheet url/path)
 - mail: string
 - mailBatch: string
 - updated: string

Response examples

- *Query string: (empty)*

```
{
  "allowUpdate": true,
  "callSimulator": "CallSimulator.exe",
  "callSimulatorBatch": "CallSimulatorBatchTool.exe",
  "excelUrl": "/SwMonMACList.xlsx",
  "mail": "mailto:?subject=Link for Call Simulator&body=Please click on the following link to download the Call Simulator%0A%0A%09http://Fred.pathsolutions.local:8084/CallSimulator.exe%0A%0AWhen the program runs, enter the server address %22Fred.pathsolutions.local%22 and server port %228084%22",
  "mailBatch": "mailto:?subject=Link for Call Simulator Batch Tool&body=Please click on the following link to download the Call Simulator Batch Tool%0A%0A%09http://Fred.pathsolutions.local:8084/CallSimulatorBatchTool.exe%0A%0AWhen the program runs, enter the server address %22Fred.pathsolutions.local%22 and server port %228084%22",
  "updated": "6/2/2018, 8:35:54 PM"
}
```

/VoIPToolsWhereConn.json

Search all monitored ARP caches to locate the switch interface that has MAC address for a provided IP address with the fewest interfaces



Query parameters

Name	Type	Description
q	string	IP address

Response properties

- object
 - result: string (result as an html string)

Response examples

- Query string: `q=10.0.0.40`

```
{
  "result": "10.0.0.40 is connected to the <a href=\"Devices.html?d=5\">Pinot</a>
switch Interface <a href=\"Devices.html?d=5&i=7\">#7</a> ."
}
```

PAGE: Wan.html

/WAN.json

WAN interfaces

Response properties

- array<object>
 - details: object
 - component: string
 - notes: string
 - title: string
 - value: array<string>
 - devName: object
 - href: string
 - value: string
 - intNum: object
 - href: string
 - value: string
 - utilization: object
 - component: string
 - dev: number
 - int: number



Response examples

- Query string: (empty)

```
[
{
  "details": {
    "component": "wan-interface-details-table",
    "notes": "",
    "title": "eth0: eth0 (Internet)",
    "value": [
      "AT&T",
      "CBW34-3827-DS232",
      "..."
    ]
  },
  "devName": {
    "href": "Devices.html?d=1",
    "value": "hqfw1"
  },
  "intNum": {
    "href": "Devices.html?d=1&i=6",
    "value": "Int #6"
  },
  "utilization": {
    "component": "wan-interface-utilization-graph",
    "dev": 1,
    "int": 6
  }
},
{
  "details": {
    "component": "wan-interface-details-table",
    "notes": "Steve's awesome internet",
    "title": "eth0: eth0 (Internet)",
    "value": [
      "AT&T",
      "GigaPower",
      "..."
    ]
  },
  "devName": {
    "href": "Devices.html?d=46",
    "value": "TX-HomeFW"
  },
  "intNum": {
```



```

        "href": "Devices.html?d=46&i=6",
        "value": "Int #6"
    },
    "utilization": {
        "component": "wan-interface-utilization-graph",
        "dev": 46,
        "int": 6
    }
}
]

```

/WanGraphData.json

WAN interfaces graph data

Query parameters

Name	Type	Description
[query]	null	query parameters, the key is the value

Response properties

- object
 - pollDelay: number
 - data: array<object>
 - pollTime: number
 - [key: string]: number

Response examples

- Query string: *I1-6I/I1-60/I46-6I/I46-60=*

```

{
  "pollDelay": 300,
  "data": [
    {
      "pollTime": 1527908220,
      "I1-6I": 113200,
      "I1-60": 120773.328,
      "I46-6I": 1210026.625,
      "I46-60": 81893.336
    },
    {
      "pollTime": 1527908520,
      "I1-6I": 114266.672,

```



```
"I1-60": 123013.336,  
"I46-6I": 824186.625,  
"I46-60": 67920  
},  
"..."  
]  
}
```

