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GET: Get Supported Northbound Notifications

Description

This API returns all supported northbound notification types and applicable attributes for the notification rules.

HTTP Method

GET

Resource URI

/api/configuration/v1/attributes

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output

```
{
  "networkdesignchanged": {
    "triggerHeterarchyChanged": {
      "name": "triggerHeterarchyChanged",
      "dataType": "BOOLEAN",
      "needValueCheck": false,
      "evaluateByProvider": false,
      "validValueSet": [],
      "nameSpace": "networkdesignchanged"
    },
    "triggerNetworkDesignChanged": {
      "name": "triggerNetworkDesignChanged",
      "dataType": "BOOLEAN",
      "needValueCheck": false,
      "evaluateByProvider": false,
      "validValueSet": [],
      "nameSpace": "networkdesignchanged"
    }
  },
  "servicestatus": {
    "oldStatus": {
      "name": "oldStatus",
      "dataType": "ENUM",
      "needValueCheck": false,
      "evaluateByProvider": false,
      "validValueSet": [
        "STOPPED",
        "RUNNING",

```

```
        "CRASHED",
        "DISABLED"
    ],
    "nameSpace": "servicestatus"
},
"status": {
    "name": "status",
    "dataType": "ENUM",
    "needValueCheck": true,
    "evaluateByProvider": true,
    "validValueSet": [
        "STOPPED",
        "RUNNING",
        "CRASHED",
        "DISABLED"
    ],
    "nameSpace": "servicestatus"
},
"statusChanged": {
    "name": "statusChanged",
    "dataType": "BOOLEAN",
    "needValueCheck": true,
    "evaluateByProvider": false,
    "validValueSet": [],
    "nameSpace": "servicestatus"
}
}
}
```

GET: Current CMX Image Version

Description

This API returns the current version of the CMX Image.

HTTP Method

GET

Resource URI

/api/config/v1/version/image

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
{
  "cmx_image_version": "CISCO_CMX-10.4.0-93.cmx",
  "cmx_rpm_versions": [
    "cisco_cmx_connect-10.4.0-18",
    "cisco_cmx_wips-10.2.0-96",
    "cisco_cmx-10.4.0-1234"
  ]
}
```

GET: Count of Active Alerts

Description

This API returns a count of active alerts.

HTTP Method

GET

Resource URI

/api/config/v1/alerts/count

Requires OAuth

N

Parameters

None.

Content Type

application/json

GET: All Alerts

Description

This API returns all active alerts.

HTTP Method

GET

Resource URI

/api/config/v1/alerts

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
[
  {
    "changedOn": 1490159411911,
    "tenantId": 0,
    "lastNotificationTime": 1490159411918,
    "hashkey": -1446685026,
    "alertType": "NMSP_CONNECTION_STATUS",
    "alertStatus": "Unhandled",
    "severity": "Critical",
    "origin": "cmx-vmdev83 WLC: 10.32.168.50",
    "source": "NMSPLB",
    "alarmDescription": "NMSP connection status is inactive for WLC 10.32.168.50",
    "lastEmail": 0,
    "refId": "NMSPLB"
  }
]
```

POST: Add Role to User

Description

This API adds a role to a user.

HTTP Method

POST

Resource URI

/api/config/v1/aaa/users/:username/role/:rolename

Requires Basic Auth

N

Parameters

Table 1: Parameter Details

Name	Required	Default	Type	Location	Description
username	Y	—	String	pathReplace	Username of the user.
rolename	Y	—	String	pathReplace	Role name to be added to the user.

Content Type

application/json

DELETE: Role from User

Description

Remove role from a user.

HTTP Method

DELETE

Resource URI

/api/config/v1/aaa/users/:username/role/:rolename

Requires OAuth

N

Parameters

Table 2: Parameter Details

Name	Required	Default	Type	Location	Description
username	Y	—	String	pathReplace	Username of user.
rolename	Y	—	String	pathReplace	Role name that needs to be deleted from this user.

Content Type

application/json

GET: All Users in the System

Description

This API gets the details of all users in the system.

HTTP Method

GET

Resource URI

/api/config/v1/aaa/users

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

Sample Output

```
[
  {
    "id": 1,
    "username": "admin",
    "password": "*****",
    "firstname": "Admin",
    "lastname": "User",
    "userGroups": [],
    "roles": [
      {
        "id": 9,
        "name": "Admin",
        "privileges": []
      }
    ],
    "developerkey": "xjPksHwUQm6bUdITCymREKaoShqB2HPQ",
    "lastlogin": 1519852131789
  }
]
```

POST: Create a User

Description

This API enables you to create a user.

HTTP Method

POST

Resource URI

/api/config/v1/aaa/users

Requires Basic Auth

N

Parameters

Table 3: Parameter Details

Name	Required	Default	Type	Location	Description
__username	Y	—	string	body	Username of the user.
password	Y	—	string	body	Password of the user.
firstname	N	—	string	body	First name of the user.
lastname	N	—	string	body	Last name of the user.
roles	N	—	text	body	Roles for this user.
developerkey	N	—	string	body	CMX API Developer Key.
lastlogin	N	—	text	body	User's last login.

Content Type

application/json

POST: Modify User

Description

This API modifies the attributes of a user.

HTTP Method

POST

Resource URI

/api/config/v1/aaa/users/:username

Requires Basic Auth

N

Parameters

Table 4: Parameter Details

Name	Required	Default	Type	Location	Description
username	Y	—	String	pathReplace	Username name of the user
__username	Y	—	string	body	Username of the user.
password	Y	—	string	body	Password of the user.
firstname	N	—	string	body	First name of the user.
lastname	N	—	string	body	Last name of the user.
roles	N	—	text	body	Roles assigned to this user.
developerkey	N	—	string	body	CMX API Developer Key.
lastlogin	N	—	text	body	User's Last Login.

Content Type

application/json

GET: User by Username

Description

This API retrieves user by username.

HTTP Method

GET

Resource URI

/api/config/v1/aaa/users/:username

Requires Basic Auth

N

Parameters

Table 5: Parameter Details

Name	Required	Default	Type	Location	Description
username	Y	—	String	pathReplace	Username

Content Type

application/json

Sample Output (JSON)

10.30.114.188/api/config/v1/aaa/users/admin

```
{
  "id": 102,
  "username": "mika",
  "password": "*****",
  "firstname": "mika",
  "lastname": "mika",
  "userGroups": [],
  "roles": [
    {
      "id": 5,
      "name": "Read Only",
      "privileges": []
    }
  ],
  "developerkey": null,
  "lastlogin": 1507596970322
}
```

DELETE: User by Username

Description

This API deletes a user.

HTTP Method

DELETE

Resource URI

/api/config/v1/aaa/users/:username

Requires Basic Auth

N

Parameters

Table 6: Parameter Details

Name	Required	Default	Type	Location	Description
username	Y	—	String	pathReplace	Username.

Content Type

application/json

GET: All Roles

Description

This API gets all roles.

HTTP Method

GET

Resource URI

/api/config/v1/aaa/roles

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
[
  {
    "id": 1,
    "name": "System",
    "privileges": []
  },
  {
    "id": 2,
    "name": "Manage",
    "privileges": []
  },
  {
    "id": 3,
    "name": "Analytics",
    "privileges": []
  },
  {
    "id": 4,
    "name": "Connect",
    "privileges": []
  },
  {
    "id": 7,
    "name": "Location",
    "privileges": []
  },
  {
    "id": 8,
    "name": "ConnectExperience",

```

```
    "privileges": []
  },
  {
    "id": 9,
    "name": "Admin",
    "privileges": []
  },
  {
    "id": 5,
    "name": "Read Only",
    "privileges": []
  }
]
```


GET: All Campuses

Description

This API gets information about all campuses.

HTTP Method

GET

Resource URI

/api/config/v1/campuses

Requires OAuth

N

Parameters

None.

Content Type

application/json

GET: Campus by Name

Description

This API returns a campus by name.

HTTP Method

GET

Resource URI

/api/config/v1/campuses/:name

Requires OAuth

N

Parameters

Table 7: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Campus Name .

Content Type

application/json

PUT: Add Campus

Description

This API enables you to add a campus.

HTTP Method

PUT

Resource URI

/api/config/v1/campuses

Requires OAuth

N

Parameters

Table 8: Parameter Details

Name	Required	Default	Type	Location	Description
objectVersion	N	—	number	body	objectVersion
name	Y	—	string	body	Name of the campus. This value should be unique.
dimension	N	—	text	body	Dimension
image	N	—	text	body	image
buildingList	N	—	text	body	List of buildings inside the campus.
aesUid	N	—	number	body	aesUid
aesUidString	N	—	string	body	aesUidString
members	N	—	text	body	members

Content Type

application/json

GET: Count of All Map Elements

Description

This API provides count of campuses, buildings, and floors.

HTTP Method

GET

Resource URI

/api/config/v1/maps/count

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
{
  "totalCampuses": 2,
  "totalBuildings": 3,
  "totalFloors": 8,
  "totalAps": 158,
  "campusCounts": [
    {
      "campusName": "Nortech Campus",
      "totalBuildings": 1,
      "buildingCounts": [
        {
          "buildingName": "Nortech-1",
          "totalFloors": 1,
          "floorCounts": [
            {
              "floorName": "1st Floor",
              "apCount": 14
            }
          ]
        }
      ]
    },
    {
      "campusName": "System Campus",
      "totalBuildings": 2,
      "buildingCounts": [
        {
          "buildingName": "SJC23",
          "totalFloors": 3,
```

```
    "floorCounts": [
      {
        "floorName": "1st floor (CCW remodel)",
        "apCount": 25
      },
      {
        "floorName": "2nd floor (CCW remodel)",
        "apCount": 25
      },
      {
        "floorName": "3rd floor (CCW remodel)",
        "apCount": 24
      }
    ]
  },
  {
    "buildingName": "SJC24",
    "totalFloors": 4,
    "floorCounts": [
      {
        "floorName": "2nd floor (CCW remodel)",
        "apCount": 21
      },
      {
        "floorName": "2nd floor (Area Addition)",
        "apCount": 0
      },
      {
        "floorName": "3rd floor (CCW remodel)",
        "apCount": 24
      },
      {
        "floorName": "1st floor (CCW remodel)",
        "apCount": 25
      }
    ]
  }
]
}
```

GET: All Maps

Description

This API returns all maps.

HTTP Method

GET

Resource URI

/api/config/v1/maps

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
{
  "version": 0,
  "campuses": [
    {
      "objectVersion": 0,
      "name": "System Campus",
      "dimension": {
        "length": 99999,
        "width": 99999,
        "height": 99999,
        "offsetX": 0,
        "offsetY": 0,
        "unit": "FEET"
      },
      "image": null,
      "buildingList": [
        {
          "aesUId": -6105692415270583000,
          "objectVersion": 0,
          "name": "SJC23",
          "dimension": {
            "length": 300,
            "width": 500,
            "height": 10,
            "offsetX": 0,
            "offsetY": 0,
            "unit": "FEET"
          }
        }
      ]
    }
  ]
}
```

```

"image": null,
"floorList": [
  {
    "aesUid": -5970502993869536000,
    "calibrationModelId": -5970502993867530000,
    "objectVersion": 0,
    "name": "1st floor (CCW remodel)",
    "dimension": {
      "length": 249.9,
      "width": 299.9,
      "height": 10,
      "offsetX": 0,
      "offsetY": 0,
      "unit": "FEET"
    },
    "isOutdoor": false,
    "floorNumber": 1,
    "image": {
      "imageName": "cadConversion_1463400556649_f.jpg",
      "zoomLevel": 5,
      "width": 3276,
      "height": 2715,
      "size": 3276,
      "maxResolution": 16,
      "colorDepth": 8
    },
    "gpsMarkers": null,
    "zones": null,
    "obstacles": [
      {
        "type": "THICK_WALL",
        "attenuation": 0,
        "obstacleCoordinates": [
          {
            "x": 2.0488472,
            "y": 3.2261696,
            "z": 0,
            "unit": "FEET"
          },
          {
            "x": 2.561059,
            "y": 236.22719,
            "z": 0,
            "unit": "FEET"
          }
        ]
      },
      {
        "type": "NORMAL_WALL",
        "attenuation": 0,
        "obstacleCoordinates": [
          {
            "x": 91.68591,
            "y": 233.66675,
            "z": 0,
            "unit": "FEET"
          },
          {
            "x": 93.73476,
            "y": 212.15895,
            "z": 0,
            "unit": "FEET"
          }
        ]
      }
    ]
  }
]

```

```

    }
  ],
  "accessPoints": [
    {
      "floorId": -5970502993869536000,
      "angle": 1.57,
      "apType": 2,
      "switchName": null,
      "name": "sjc23-11-cap1",
      "radioMacAddress": "00:42:68:a2:2a:80",
      "ethMacAddress": null,
      "ipAddress": null,
      "numOfSlots": 2,
      "mapCoordinates": {
        "x": 12.216251,
        "y": 13.826434,
        "z": 10,
        "unit": "FEET"
      },
      "apMode": "LOCAL",
      "apInterfaces": [
        {
          "band": "IEEE_802_11_B",
          "slotNumber": 0,
          "channelAssignment": 1,
          "channelNumber": 1,
          "txPowerLevel": 8,
          "antennaPattern": "Internal-3700-2.4GHz",
          "antennaAngle": 1.5707964,
          "antennaElevAngle": 0,
          "antennaGain": 8,
          "antennaDiversity": 3,
          "antennaMode": 1,
          "antennaType": 1,
          "txPowerControl": 1,
          "unit": "RADIAN",
          "dualBandSlot": false
        },
        {
          "band": "IEEE_802_11_A",
          "slotNumber": 1,
          "channelAssignment": 1,
          "channelNumber": 36,
          "txPowerLevel": 3,
          "antennaPattern": "Internal-3700-5GHz",
          "antennaAngle": 1.5707964,
          "antennaElevAngle": 0,
          "antennaGain": 8,
          "antennaDiversity": 3,
          "antennaMode": 1,
          "antennaType": 1,
          "txPowerControl": 1,
          "unit": "RADIAN",
          "dualBandSlot": false
        }
      ],
      "floorIdString": "-5970502993869536658",
      "geoCoordinate": null,
      "deviceDetails": null
    },
    {
      "floorId": -5970502993869536000,
      "angle": 1.57,
      "apType": 2,

```



```

"switchName": null,
"name": "sjc23-11-cap10",
"radioMacAddress": "00:42:68:ae:2c:20",
"ethMacAddress": null,
"ipAddress": null,
"numOfSlots": 2,
"mapCoordinates": {
  "x": 22.229992,
  "y": 100.062416,
  "z": 10,
  "unit": "FEET"
},
"apMode": "LOCAL",
"apInterfaces": [
  {
    "band": "IEEE_802_11_B",
    "slotNumber": 0,
    "channelAssignment": 1,
    "channelNumber": 1,
    "txPowerLevel": 8,
    "antennaPattern": "Internal-3700-2.4GHz",
    "antennaAngle": 1.5707964,
    "antennaElevAngle": 0,
    "antennaGain": 8,
    "antennaDiversity": 3,
    "antennaMode": 1,
    "antennaType": 1,
    "txPowerControl": 1,
    "unit": "RADIAN",
    "dualBandSlot": false
  },
  {
    "band": "IEEE_802_11_A",
    "slotNumber": 1,
    "channelAssignment": 1,
    "channelNumber": 64,
    "txPowerLevel": 4,
    "antennaPattern": "Internal-3700-5GHz",
    "antennaAngle": 1.5707964,
    "antennaElevAngle": 0,
    "antennaGain": 8,
    "antennaDiversity": 3,
    "antennaMode": 1,
    "antennaType": 1,
    "txPowerControl": 1,
    "unit": "RADIAN",
    "dualBandSlot": false
  }
],
"floorIdString": "-5970502993869536658",
"geoCoordinate": null,
"deviceDetails": null
}
],
"floorIdString": "-5970502993869536658",
"geoCoordinate": null,
"deviceDetails": null
}
],
"referenceMarkers": null,
"exciters": null,
"filterRegions": [
  {
    "regionType": "OUTSIDE",

```

```

        "regionCoordinates": [
          {
            "x": 0,
            "y": 0,
            "z": 0,
            "unit": "FEET"
          },
          {
            "x": 299.9,
            "y": 0,
            "z": 0,
            "unit": "FEET"
          },
          {
            "x": 299.9,
            "y": 249.9,
            "z": 0,
            "unit": "FEET"
          },
          {
            "x": 0,
            "y": 249.9,
            "z": 0,
            "unit": "FEET"
          }
        ],
        "isDefault": false
      }
    ],
    "filterRails": null,
    "hierarchyName": "System Campus>SJC23>1st floor (CCW remodel)",
    "aesUidString": "-5970502993869536658",
    "geoLocationCapable": "NO_GPS_MARKERS_PRESENT",
    "mode": null,
    "floorModeDetails": {
      "mode": "RSSI",
      "requestedModeSet": false
    }
  }
},
"aesUid": 727035700041482200,
"aesUidString": "727035700041482262",
"members": null
}
]
}

```

GET: Campus by Name

Description

This API returns a campus by name.

HTTP Method

GET

Resource URI

/api/config/v1/maps/info/:campusName

Requires OAuth

N

Parameters

Table 9: Parameter Details

Name	Required	Default	Type	Location	Description
campusName	Y	—	String	pathReplace	Campus Name

Content Type

application/json

GET: Building by Name Inside Specific Campus

Description

This API returns a building by name.

HTTP Method

GET

Resource URI

/api/config/v1/maps/info/:campusName/:buildingName

Requires OAuth

N

Parameters

Table 10: Parameter Details

Name	Required	Default	Type	Location	Description
campusName	Y	—	String	pathReplace	Campus Name.
buildingName	Y	—	String	pathReplace	Building Name.

Content Type

application/json

GET: Floor Inside Specific Building and Specific Campus

Description

This API returns a floor by name based on a specific building and campus.

HTTP Method

GET

Resource URI

/api/config/v1/maps/info/:campusName/:buildingName/:floorName

Requires OAuth

N

Parameters

Table 11: Parameter Details

Name	Required	Default	Type	Location	Description
campusName	Y	—	String	pathReplace	Campus Name.
buildingName	Y	—	String	pathReplace	Building Name.
floorName	Y	—	String	pathReplace	Floor Name.

Content Type

application/json

GET: Floor Image

Description

This API returns an image for a given combination of campus, building, and floor name.

HTTP Method

GET

Resource URI

/api/config/v1/maps/image/:campusName/:buildingName/:floorName

Requires Basic Auth

N

Parameters

Table 12: Parameter Details

Name	Required	Default	Type	Location	Description
campusName	Y	—	String	pathReplace	Campus Name.
buildingName	Y	—	String	pathReplace	Building Name.
floorName	Y	—	String	pathReplace	Floor Name.

Content Type

application/json

GET: Image by Name

Description

This API returns an image by image name.

HTTP Method

GET

Resource URI

/api/config/v1/maps/imagesource/:imageName

Requires OAuth

N

Parameters

Table 13: Parameter Details

Name	Required	Default	Type	Location	Description
imageName	Y	—	String	pathReplace	Image Name.

Content Type

application/json

GET: All Sites

Description

This API returns all the presence sites.

HTTP Method

GET

Resource URI

/api/config/v1/sites

Requires OAuth

N

Parameters

None.

Content Type

application/json

Example

```
[{"changedOn":0,"aesUID":1487056035936,"name":"PSL  
28, 2017 3:37:50  
28, 2017 3:37:50 PM","objectVersion":0}]
```


GET: Site Details by ID or Name

Description

This API returns the presence site for the specified ID or Name.

HTTP Method

GET

Resource URI

/api/config/v1/sites/:id

Requires OAuth

N

Parameters

None.

Content Type

application/json

GET: System Settings Preferences

Description

This API retrieves system settings.

HTTP Method

GET

Resource URI

/api/config/v1/system/preferences/:component/:key

Requires OAuth

N

Parameters

Table 14: Parameter Details

Name	Required	Default	Type	Location	Description
component	Y	—	String	pathReplace	The component.
key	N	—	String	pathReplace	The key to retrieve. If not set, retrieves all keys for the given component.

Content Type

application/json

PUT: System Settings

Description

This API enable you to store system settings. This operation can only be performed by users in the 'Admin' group.

HTTP Method

PUT

Resource URI

/api/config/v1/system/preferences/:component/:key

Requires OAuth

N

Parameters

Table 15: Parameter Details

Name	Required	Default	Type	Location	Description
component	Y	—	String	pathReplace	The component.
key	Y	—	String	pathReplace	The key.
String	Y	—	string	body	Value.

Content Type

application/json


```

    "enabled": true,
    "internal": true,
    "cloud": true,
    "enableMacScrambling": false,
    "macScramblingSalt": "",
    "notificationType": "LocationUpdate"
  },
  {
    "name": "gateway-blemgmtadmin-feedback-io89bg",
    "userId": "local-user",
    "rules": [
      {
        "conditions": []
      }
    ],
    "subscribers": [
      {
        "receivers": [
          {
            "uri":
"https://c2f1pk.execute-api.us-west-2.amazonaws.com/43/stage/listener/5f5967a8-a0df-4674-92b5-86510ce72c3?x-amzn-RequestId=a1991c30-8cfd-11e7-b51c-b323f88f91d",
            "messageFormat": "JSON",
            "headers": null,
            "qos": "AT_MOST_ONCE"
          }
        ]
      }
    ],
    "enabled": true,
    "internal": true,
    "cloud": true,
    "enableMacScrambling": false,
    "macScramblingSalt": "",
    "notificationType": "LodestarConfigUpdate"
  },
  {
    "name": "gateway-blemanager.cmxcis.co-feedback-io89bg",
    "userId": "local-user",
    "rules": [
      {
        "conditions": []
      }
    ],
    "subscribers": [
      {
        "receivers": [
          {
            "uri":
"https://ic89.cmcis.co/43/api/ble/v1/scan/?where=DEACIKVQICHCICLITNID_ejOWFhRZT6nO1zj9.09VAFNtNW2Lr26GD8i09gFmNG",
            "messageFormat": "JSON",
            "headers": null,
            "qos": "AT_MOST_ONCE"
          }
        ]
      }
    ],
    "enabled": true,
    "internal": true,
    "cloud": true,
    "enableMacScrambling": false,
    "macScramblingSalt": "",
    "notificationType": "LodestarConfigUpdate"
  }

```



```

"rules": [
  {
    "conditions": [
      {
        "condition": "bletagupdate.isBle == true"
      },
      {
        "condition": "bletagupdate.deviceType == tag"
      }
    ]
  }
],
"subscribers": [
  {
    "receivers": [
      {
        "uri":
https://a2f8pkcetepl.us-west-2.amazonaws.com/43/tag/listener/5f5978-0f-4674-925-8650e72c3c0xidentifier-a191c30-8-f1-11e7451c-32368834,
        "messageFormat": "JSON",
        "headers": null,
        "qos": "AT_MOST_ONCE"
      }
    ]
  }
],
"enabled": true,
"internal": true,
"cloud": true,
"enableMacScrambling": false,
"macScramblingSalt": "",
"notificationType": "BleTagUpdate"
},
{
  "name": "gateway-blemgmtadmin-mapChange-io89bg",
  "userId": "local-user",
  "rules": [
    {
      "conditions": []
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri":
https://a2f8pkcetepl.us-west-2.amazonaws.com/43/tag/listener/5f5978-0f-4674-925-8650e72c3c0xidentifier-a191c30-8-f1-11e7451c-32368834,
          "messageFormat": "JSON",
          "headers": null,
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": true,
  "internal": true,
  "cloud": true,
  "enableMacScrambling": false,
  "macScramblingSalt": "",
  "notificationType": "NetworkDesignChanged"
},
{
  "name": "gateway-blemanager.cmxcis.co-bleinfo-io89bg",

```



```

"userId": "local-user",
"rules": [
  {
    "conditions": [
      {
        "condition": "bletagupdate.isBle == true"
      },
      {
        "condition": "bletagupdate.deviceType == tag"
      }
    ]
  }
],
"subscribers": [
  {
    "receivers": [
      {
        "uri": "https://ic8g.ocis.c43/api/ble/v1/notify?deviceType=BLE_TAG_UPDATE&tag=BLE_TAG_UPDATE",
        "messageFormat": "JSON",
        "headers": null,
        "qos": "AT_MOST_ONCE"
      }
    ]
  }
],
"enabled": true,
"internal": true,
"cloud": true,
"enableMacScrambling": false,
"macScramblingSalt": "",
"notificationType": "BleTagUpdate"
},
{
  "name": "CMX_Api_Server_Notification_2",
  "userId": "admin",
  "rules": [
    {
      "conditions": []
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri": "http://127.0.0.1:9094/api/notify/v1/absence",
          "messageFormat": "JSON",
          "headers": null,
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": true,
  "internal": true,
  "cloud": false,
  "enableMacScrambling": false,
  "macScramblingSalt": "",
  "notificationType": "Absence"
},
{
  "name": "PythonAW",
  "userId": "admin",

```

```

"rules": [
  {
    "conditions": [
      {
        "condition": "locationupdate.macAddressList == 98:07:2d:8d:75:e8;"
      },
      {
        "condition": "locationupdate.deviceType == tag"
      }
    ]
  }
],
"subscribers": [
  {
    "receivers": [
      {
        "uri": "http://dsladden.pythonanywhere.com:80",
        "messageFormat": "JSON",
        "headers": null,
        "qos": "AT_MOST_ONCE"
      }
    ]
  }
],
"enabled": true,
"internal": false,
"cloud": false,
"enableMacScrambling": false,
"macScramblingSalt": "",
"notificationType": "LocationUpdate"
},
{
  "name": "PythonAWN",
  "userId": "admin",
  "rules": [
    {
      "conditions": []
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri": "http://taibrahi.pythonanywhere.com:80",
          "messageFormat": "JSON",
          "headers": null,
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": false,
  "internal": false,
  "cloud": false,
  "enableMacScrambling": true,
  "macScramblingSalt": "",
  "notificationType": "NetworkDesignChanged"
},
{
  "name": "HeaderDone",
  "userId": "admin",
  "rules": [
    {
      "conditions": []
    }
  ]
}

```

```
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri": "http://10.41.32.235:8000",
          "messageFormat": "JSON",
          "headers": null,
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": false,
  "internal": false,
  "cloud": false,
  "enableMacScrambling": false,
  "macScramblingSalt": "",
  "notificationType": "LocationUpdate"
}
]
```

GET: Notifications by Name

Description

This API returns a notification subscription by name.

HTTP Method

GET

Resource URI

/api/config/v1/notifications/:name

Requires OAuth

N

Parameters

Table 16: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.

Content Type

application/json

GET: Notification Subscription Availability

Description

This API checks if a notification subscription exists. It returns FOUND(302) if exists, 404 is not found.

HTTP Method

GET

Resource URI

/api/config/v1/notifications/exists/:name

Requires OAuth

N

Parameters

Table 17: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.

Content Type

application/json

PUT: Add Notification Subscription

Description

This API allows you to add a notification subscription.

HTTP Method

PUT

Resource URI

/api/config/v1/notification

Requires OAuth

N

Parameters

Table 18: Parameter Details

Name	Required	Default	Type	Location	Description
userId	Y	—	string	body	User ID.
rules	Y	—	text	body	List of rules.
subscribers	Y	—	text	body	Subscribers

Name	Required	Default	Type	Location	Description
notificationType	Y	—	enumerated	body	Choose one of the following notification types: <ul style="list-style-type: none"> • Any • Absence • AreaChange • Association • BatteryLife • Chokepoint • Containment • Emergency • Movement • Presence • LocationUpdate • Zone • Location • ServiceStatus • NetworkDesignChanged • CpuUsage • MemoryUsage • DiskUsage • BeaconMovement • BeaconAbsence • Update • InOut • PasserbyDetected • PasserbyBecameVisitor • VisitorWentAway • SiteEntryChanged
enabled	N	—	enumerated	body	enabled <ul style="list-style-type: none"> • true • false

Name	Required	Default	Type	Location	Description
enableMacScrambling	N	—	enumerated	body	enableMacScrambling <ul style="list-style-type: none"> • true • false

Content Type

application/json

Sample Input (JSON)

application/json

```
{
  "name": "locupdate",
  "userId": "admin",
  "rules": [
    {
      "conditions": [
        {
          "condition": "locationupdate.macAddressList ==
00:0c:cc:4f:5f:ba;00:24:d7:37:68:d8;00:24:d7:59:8f:2c;00:0b:6b:a8:56:9f;"
        }
      ]
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri": "http://172.19.35.203:7123",
          "messageFormat": "JSON",
          "headers": null,
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": true,
  "internal": false,
  "cloud": false,
  "enableMacScrambling": false,
  "macScramblingSalt": "",
  "notificationType": "LocationUpdate"
}
```


PUT: List of Notification Subscriptions

Description

This API allows you to add a list of notification subscriptions.

HTTP Method

PUT

Resource URI

/api/config/v1/notifications

Requires OAuth

N

Parameters

None.

Content Type

application/json

DELETE: Notification Subscription by Notification Name

Description

This API allows you to delete a notification subscription.

HTTP Method

DELETE

Resource URI

/api/config/v1/notifications/:name

Requires OAuth

N

Parameters

Table 19: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.

Content Type

application/json

GET: System Alert Subscription

Description

This API returns a system alert notification subscription by name.

HTTP Method

GET

Resource URI

/api/config/v1/notifications/alerts

Requires OAuth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
[
  {
    "name": "serviceIsCrashed",
    "userId": "admin",
    "rules": [
      {
        "conditions": [
          {
            "condition": "servicestatus.status == CRASHED"
          }
        ]
      }
    ],
    "subscribers": [
      {
        "receivers": [
          {
            "uri": "local://local",
            "messageFormat": "JSON",
            "headers": null,
            "qos": "AT_MOST_ONCE"
          }
        ]
      }
    ],
    "enabled": true,
    "internal": false,
    "cloud": false,
    "enableMacScrambling": false,
  }
]
```

```
    "macScramblingSalt": "",
    "severity": "Critical",
    "notificationType": "ServiceStatus"
  },
  {
    "name": "serviceIsDown",
    "userId": "admin",
    "rules": [
      {
        "conditions": [
          {
            "condition": "servicestatus.status == STOPPED"
          }
        ]
      }
    ],
    "subscribers": [
      {
        "receivers": [
          {
            "uri": "local://local",
            "messageFormat": "JSON",
            "headers": null,
            "qos": "AT_MOST_ONCE"
          }
        ]
      }
    ],
    "enabled": true,
    "internal": false,
    "cloud": false,
    "enableMacScrambling": false,
    "macScramblingSalt": "",
    "severity": "Info",
    "notificationType": "ServiceStatus"
  }
]
```

GET: Notifications by Name

Description

This API returns a system alert notification subscription by name.

HTTP Method

GET

Resource URI

/api/config/v1/notifications/alerts/:name

Requires OAuth

N

Parameters

Table 20: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.

Content Type

application/json

PUT: List of System Alert Subscriptions

Description

This API allows to add a list of system alert subscriptions.

HTTP Method

PUT

Resource URI

/api/config/v1/notifications/alerts

Requires OAuth

N

Parameters

None.

Content Type

application/json

DELETE: Notification Alert Subscription

Description

This API allows you to delete a system alert notification subscription.

HTTP Method

DELETE

Resource URI

/api/config/v1/notifications/alerts/:name

Requires OAuth

N

Parameters

Table 21: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.

Content Type

application/json

POST: Change Status of Notification by Name

Description

This API enable/disable a notification subscription by name.

HTTP Method

POST

Resource URI

/api/config/v1/notifications/:name/:action

Requires OAuth

N

Parameters

Table 22: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	String	pathReplace	Notification Name.
action	Y	—	String	pathReplace	Enable/Disable

Content Type

application/json

GET: Unique Alerts by Time Interval

Description

This API returns a list of unique alerts by time interval.

HTTP Method

GET

Resource URI

/api/config/v1/history/alerts/unique

Requires Basic Auth

N

Parameters

Table 23: Parameter Details

Name	Required	Default	Type	Location	Description
startTime	Y	—	Number	query	Specifies the start time in milliseconds.
endTime	Y	—	Number	query	Specifies the end time in milliseconds.

Content Type

application/json

Table 24: API History

Release	Modification
Cisco CMX Release 10.4	This command is deprecated.

GET: Alert by Time Interval

Description

This API returns a list of alerts by time interval.

HTTP Method

GET

Resource URI

/api/config/v1/history/alerts

Requires OAuth

N

Parameters

Table 25: Parameter Details

Name	Required	Default	Type	Location	Description
startTime	Y	—	Number	query	Specifies the start time in milliseconds.
endTime	Y	—	Number	query	Specifies the end time in milliseconds.

Content Type

application/json

GET: Alerts by Time Interval and Hashkey

Description

This API returns a list of alerts by time interval and hashkey.

HTTP Method

GET

Resource URI

/api/config/v1/history/alerts/:key

Requires Basic Auth

N

Parameters

Table 26: Parameter Details

Name	Required	Default	Type	Location	Description
key	Y	—	String	pathReplace	Alert Hashkey which could be obtained by calling /config/v1/alerts.
startTime	Y	—	Number	query	Specifies the start time in milliseconds.
endTime	Y	—	Number	query	Specifies the end time in milliseconds.

Content Type

application/json

Table 27: API History

Release	Modification
Cisco CMX Release 10.4	This command is deprecated.

GET: Total Alerts Created for a Given Alert Key

Description

This API returns number of alerts for a given alert key.

HTTP Method

GET

Resource URI

/api/config/v1/history/alert/count/:key

Requires Basic Auth

N

Parameters

Table 28: Parameter Details

Name	Required	Default	Type	Location	Description
key	Y	—	String	pathReplace	Alert Hashkey which could be obtained by calling /config/v1/alerts.

Content Type

application/json

Table 29: API History

Release	Modification
Cisco CMX Release 10.4	This command is deprecated.

GET: All APs

Description

This API returns all APs.

HTTP Method

GET

Resource URI

/api/config/v1/aps

Requires OAuth

N

Parameters

None.

Content Type

application/json

GET: Access Point by MAC Address

Description

This API returns access point by given ap MAC address.

HTTP Method

GET

Resource URI

/api/config/v1/aps/:mac

Requires OAuth

N

Parameters

Table 30: Parameter Details

Name	Required	Default	Type	Location	Description
mac	Y	—	String	pathReplace	Access point MAC address.

Content Type

application/json

GET: Settings for a Given User

Description

This API retrieves settings for a given user.

HTTP Method

GET

Resource URI

/api/config/v1/user/preferences/:userid/:component/:key

Requires OAuth

N

Parameters

Table 31: Parameter Details

Name	Required	Default	Type	Location	Description
userid	Y	—	String	pathReplace	The user ID.
component	Y	—	String	pathReplace	The component.
key	N	—	String	pathReplace	The key to retrieve. If not set, retrieves all keys for the given component.

Content Type

application/json

PUT: Setting for a Given User

Description

This API stores the settings of a given user.

HTTP Method

PUT

Resource URI

/api/config/v1/user/preferences/:userid/:component/:key

Requires OAuth

N

Parameters

Table 32: Parameter Details

Name	Required	Default	Type	Location	Description
userid	Y	—	String	pathReplace	The user ID.
component	Y	—	String	pathReplace	The component.
key	Y	—	String	pathReplace	The key.
json	N	—	String	query	Whether the data passed is JSON - if set, this will validate the data and reject malformed JSON Allowed values/formats: true or false.
String	Y	—	string	body	Value

Content Type

application/json

GET: All Cisco WLC Controllers

Description

This API provides a list of all Cisco WLC Controllers.

HTTP Method

GET

Resource URI

/api/config/v1/controllers

Requires OAuth

N

Parameters

None.

Content Type

application/json

GET: Get Cisco WLC Controllers by IP address

Description

This API returns a controller given an IP address.

HTTP Method

GET

Resource URI

/api/config/v1/controllers/:ipAddress

Requires OAuth

N

Parameters

Table 33: Parameter Details

Name	Required	Default	Type	Location	Description
ipAddress	Y	—	String	pathReplace	IP Address.

Content Type

application/json

Sample Output

http://10.68.40.131/api/config/v1/controllers/10.68.40.124

```
{ "name": null, "ipAddress": "10.68.40.124", "readOnlyComm": null, "writeComm":
"iuBXuWikK4nfg52YKODcUg==", "snmpVersion": 1, "version": "8.1.131", "userName": "admin",
"authType": 0, "authPassword": null, "privType": 0, "privPassword": null, "macAddress": null,
"sysUpTime": 0, "unauthenticatedConnection": false, "applicableServices": [0], "aesUIId":
1448982516930, "objectVersion": 0, "tagNotificationInterval": 0, "wlanConfigList": [],
"deviceVersion": null, "type": "WLC", "enablePassword": null, "peerMode": false, "members":
null }
```

PUT: Controller

Description

This API allows you to add a controller.

HTTP Method

PUT

Resource URI

/api/config/v1/controllers

Requires OAuth

N

Parameters

Table 34: Parameter Details

Name	Required	Default	Type	Location	Description
name	Y	—	string	body	Name of the Wireless LAN controller.
ipAddress	Y	—	string	body	IP address of the Wireless LAN controller.
readOnlyComm	Y	—	string	body	SNMP Read Community.
writeComm	Y	—	string	body	SNMP Write Community.
snmpVersion	N	—	number	body	SNMP Version.
version	Y	—	string	body	Software version of the WLC Controller.
userName	Y	—	string	body	User name for the telnet connection.
authType	Y	—	number	body	SNMP v3 Auth Type.
authPassword	N	—	string	body	Authentication Password.
privType	N	—	number	body	Privacy Type.
privPassword	N	—	string	body	Password.
macAddress	N	—	string	body	MAC Address.
sysUpTime	N	—	number	body	System Up time.

Name	Required	Default	Type	Location	Description
unauthenticatedConnection	N	—	enumerated	body	Authentication to connect to the WLC Controller. <ul style="list-style-type: none"> • true • false
applicableServices	Y	—	array	body	Services to subscribe to the controller.
aesUId	Y	—	number	body	Cisco Prime Infrastructure generated unique ID. If not generated by Cisco Prime Infrastructure, please use a unique value.
objectVersion	N	—	number	body	Object version.
tagNotificationInterval	N	—	number	body	Tag notification interval.
wlanConfigList	N	—	text	body	WLC Controller Configuration list.
deviceVersion	N	—	string	body	Version of the device.
type	N	—	enumerated	body	type <ul style="list-style-type: none"> • WLC • NGWC
enablePassword	N	—	string	body	enablePassword
peerMode	N	—	enumerated	body	peerMode <ul style="list-style-type: none"> • true • false
members	N	—	text	body	Members.

Content Type

application/json

GET: Get All Cloud controllers

Description

This API queries all controllers that directly send traffic to the cloud without using a proxy.

HTTP Method

GET

Resource URI

/api/config/v1/cloudcontrollers

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 35: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

GET: Get Cloud Controller Details by IP address

Description

This API queries controller details by given IP address that send traffic to the cloud directly without proxy.

HTTP Method

GET

Resource URI

/api/config/v1/cloudcontrollers/:controller-ip

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 36: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

GET: Get Logo by Logo ID

Description

This API gets logo using the logo ID as a parameter.

HTTP Method

GET

Resource URI

/api/config/v1/logo/:id

Requires Basic Auth

N

Parameters

Table 37: Parameter Details

Name	Required	Default	Type	Location	Description
id	Y		Number	pathReplace	Logo id

Content Type

application/json

API History

Table 38: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

GET: Get all Logos

Description

This API gets all logos within the CMX system.

HTTP Method

GET

Resource URI

/api/config/v1/logo/logos

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 39: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

GET: Get Meraki Account Details

Description

This API returns details of the Meraki account.

HTTP Method

GET

Resource URI

/api/config/v1/meraki/:name

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 40: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

GET: heartbeat message

Description

This is from controller

HTTP Method

GET

Resource URI

/api/config/v1/nmspconfig/controller-ip

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 41: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

POST: heartbeat message

Description

This is from controller

HTTP Method

POST

Resource URI

/api/config/v1/heartbeat/:controller-ip

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 42: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

POST: Add a Logo

Description

This API adds a new logo.

HTTP Method

POST

Resource URI

/api/config/v1/logo/add

Requires Basic Auth

N

Parameters

Table 43: Parameter Details

Name	Required	Default	Type	Location	Description
logger	N		text	body	logger
__id	N		number	body	id
logo	N		string	body	logo

Content Type

application/json

API History

Table 44: API History

Release	Modification
Cisco CMX Reelase 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

POST: Adds Meraki account

Description

This API enters information related to the Meraki account.

HTTP Method

POST

Resource URI

/api/config/v1/meraki/:name

Requires Basic Auth

N

Parameters

Table 45: Parameter Details

Name	Required	Default	Type	Location	Description
validator	N		string	body	validator
secret	N		string	body	secret

Content Type

application/json

API History

Table 46: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

POST: NMSP heartbeat message

Description

This is from controller

HTTP Method

POST

Resource URI

/api/config/v1/nmspconfig/:controller-ip

Requires Basic Auth

N

Parameters

Table 47: Parameter Details

Name	Required	Default	Type	Location	Description
BASIC_AUTH	N		string	body	BASIC_AUTH
FORM_AUTH	N		string	body	FORM_AUTH
CLIENT_CERT_AUTH	N		string	body	CLIENT_CERT_AUTH
DIGEST_AUTH	N		string	body	DIGEST_AUTH

Content Type

application/json

API History

Table 48: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

PUT: Modify Logo

Description

This API is used to modify existing logos in the system.

HTTP Method

PUT

Resource URI

/api/config/v1/logo/update/:id

Requires Basic Auth

N

Parameters

Table 49: Parameter Details

Name	Required	Default	Type	Location	Description
id	Y		String	pathReplace	id
logger	N		text	body	logger
__id	N		number	body	id
logo	N		string	body	logo

Content Type

application/json

API History

Table 50: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.

PUT: Update Meraki Account Details

Description

This API edits the information related to the Meraki account.

HTTP Method

PUT

Resource URI

/api/config/v1/meraki/:name

Requires OAuth

N

Parameters

Table 51: Parameter Details

Name	Required	Default	Type	Location	Description
validator	N		string	body	validator
secret	N		string	body	secret

Content Type

application/json

API History

Table 52: API History

Release	Modification
Cisco CMX Release 10.3	This command is introduced.
Cisco CMX Release 10.4	This command is deprecated.