



# Configuration

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# APIs for Exporting Large Dataset from CMX Cassandra Database

## GET: All Available Files

### Description

This API returns the list of all history data export archives that are available for download over HTTP. Note that Cisco CMX automatically deletes exported archives eight days after the date of creation.

### HTTP Method

GET

### Resource URI

/api/config/v1/historydata/export

### Requires OAuth

N

### Parameters

None.

### Content Type

The response is a JSON and contains the URL of all available files.

### Sample Output

application/json. The response contains the following:

- A timestamp that indicates when the archive was exported.
- The total size of the file(s) in bytes.
- A URL (or a list of URLs) which serves the file over HTTP.

The file format is '.tar.gz'. You can untar it to convert it to a raw text file. If the file is greater than 400 MB in size, the response is split into a list of files of 400MB each.

```
[{
  "lastModified": "Fri Jan 12 01:35:20 UTC 2018",
  "totalFileSizeInBytes": 22719368,
  "fileUrl": [
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720916/CassandraDataset_1515720916.tar.gz.aa",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720916/CassandraDataset_1515720916.tar.gz.ab",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720916/CassandraDataset_1515720916.tar.gz.ac"
  ]
},
{
  "lastModified": "Fri Jan 12 01:35:40 UTC 2018",
  "totalFileSizeInBytes": 132,
```

```

"fileUrl": [
  "https://10.30.114.115/common/data/export/CassandraDataset_1515720939/CassandraDataset_1515720939.tar.gz"
],
},
{
  "lastModified": "Fri Jan 12 01:35:26 UTC 2018",
  "totalFileSizeInBytes": 22719371,
  "fileUrl": [
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720922/CassandraDataset_1515720922.tar.gz.ab",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720922/CassandraDataset_1515720922.tar.gz.aa",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720922/CassandraDataset_1515720922.tar.gz.ac"
  ]
},
{
  "lastModified": "Fri Jan 12 01:35:45 UTC 2018",
  "totalFileSizeInBytes": 132,
  "fileUrl": [
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720943/CassandraDataset_1515720943.tar.gz"
  ]
},
{
  "lastModified": "Fri Jan 12 01:35:32 UTC 2018",
  "totalFileSizeInBytes": 22719368,
  "fileUrl": [
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720928/CassandraDataset_1515720928.tar.gz.ab",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720928/CassandraDataset_1515720928.tar.gz.ac",
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720928/CassandraDataset_1515720928.tar.gz.aa"
  ]
},
{
  "lastModified": "Fri Jan 12 01:35:42 UTC 2018",
  "totalFileSizeInBytes": 132,
  "fileUrl": [
    "https://10.30.114.115/common/data/export/CassandraDataset_1515720941/CassandraDataset_1515720941.tar.gz"
  ]
}
]

```

To merge the parts of .tar.gz files, use the following UNIX commands:

```

cat CassandraDataset_1515720916.tar.gz.aa CassandraDataset_1515720916.tar.gz.ab
CassandraDataset_1515720916.tar.gz.ac >> CassandraDataset_1515720916.tar.gz

```

OR

```

cat CassandraDataset_1515720916.tar.gz.* >> CassandraDataset_1515720916.tar.gz

```

### API History

**Table 1: API history**

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

## GET: Is Data Export Running

### Description

This API returns if the data export utility (Cassandra data extraction process) is currently running or not. Note that CMX allows for only one extraction process to run at a time.

If the process is not running, the API returns FALSE indicating that a new extraction job can be triggered using the POST API.

If the process is running, the API returns TRUE indicating that an instance of the extraction job is already running. You can keep querying this API with an interval of a few minutes to check the status before submitting another job.

### HTTP Method

GET

### Resource URI

/api/config/v1/historydata/export/isrunning

### Requires OAuth

N

### Parameters

None.

### Content Type

The response is a JSON and contains the URL of all available files.

### Sample Output

application/json

```
{"isRunning":false}
```

```
{"isRunning":true}
```

### API History

*Table 2: API history*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

# POST: Trigger History data export

## Description

This API triggers data export for a given day or date. The API enables you to extract a large amount of raw history data in JSON format from the Cisco CMX's Cassandra database.

When the API is invoked, Cisco CMX spawns a process to extract data from Cassandra. All the history records that match the query parameters are dumped into a data file. This data file can then be downloaded from Cisco CMX server over HTTP and you can perform your own analytics by processing the JSON data. Each line in the data file represents a history record.

Note that you cannot run multiple extraction jobs at a time. If the job is already running, The API returns **HTTP 403 Forbidden**, meaning that the job is already running.

Let us observe how the API works.

The API accepts the *date* for which data needs to be exported. This parameter is mandatory.

If you want to export all the history records that are generated on 2017/11/29,

```
POST /api/config/v1/historydata/export?date=2017/11/29
```

Once the extraction is complete, the exported data file can be downloaded over HTTP.

```
GET /api/config/v1/historydata/export
```

You could also mention a specific range of hours for which you want to export the data for a given date. The value of *fromHour* cannot be greater than the value of *toHour*.

If you want to export history data generated on 2017/11/29, starting Midnight to 4 AM.

```
POST /api/config/v1/historydata/export?date=2017/11/29&fromHour=0&toHour=4
```

If you want to export history data generated on 2017/11/29 starting Midnight to 9 AM.

```
HTTP POST /api/config/v1/historydata/export?date=2017/11/29&fromHour=0&toHour=9
```

If you want to export history data generated on 2017/11/29 starting Midnight to 1 PM.

```
POST /api/config/v1/historydata/export?date=2017/11/29&fromHour=0&toHour=13
```

If you want to export history data generated on 2017/11/29 starting 4 PM to 9 PM.

```
POST /api/config/v1/historydata/export?date=2017/11/29&fromHour=16&toHour=21
```

## HTTP Method

POST

## Resource URI

/api/config/v1/historydata/export

## Requires OAuth

N

## Parameters

*Table 3: Parameter Details*

| Name     | Required | Default | Type   | Location | Description   |
|----------|----------|---------|--------|----------|---|
| date     | Y        | —       | String | body     | The date for which data export needs to be triggered. The expected date format is yyyy/MM/dd .  |
| fromHour | N        | —       | String | body     | This field expects an integer value within the range zero to 23. The field is used to export the data for a specific duration of the day. The API looks at <i>fromHour</i> and <i>toHour</i> parameters and exports data accordingly. |
| toHour   | N        | —       | String | body     | This field expects an integer value within the range one to 24. This is used to export the data for a specific duration of the day. The API looks at <i>fromHour</i> and <i>toHour</i> parameters and exports data accordingly.       |

## Content Type

application/json

**Sample Input**

```
http://<host-ip-address>/api/config/v1/historydata/export?date=2017/11/29&fromHour=0&toHour=1
```

**Sample Output**

Response:

```
"Cassandra data export utility triggered successfully."
```





```

        }
      ]
    },
    "enabled": true,
    "internal": true,
    "cloud": true,
    "enableMacScrambling": false,
    "macScramblingSalt": "",
    "notificationType": "LocationUpdate"
  },
  {
    "name": "gateway-blegmtadmin-feedback-io89bg",
    "userId": "local-user",
    "rules": [
      {
        "conditions": []
      }
    ],
    "subscribers": [
      {
        "receivers": [
          {
            "uri":
https://c2f8pk.exe.api.us-west-2.amazonaws.com/43/stage/listener/5f9678-a0f-4674-925-8610e72cc3?identifier=1991c30-8fd-11e7-51c-b2388f84,
            "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://ic89g.cmcis.co/43/api/ble/v1/conn/?where=DEA1KMQIC8GCLT2LN9eJ2W6BRZT6m0Lz9.02vafTNDWq1U76GD9.09BAND,
            "messageFormat": "JSON",
            "headers": null,
            "qos": "AT_MOST_ONCE"
          }
        ]
      }
    ],
    "enabled": true,
    "internal": true,

```



```

"rules": [
  {
    "conditions": [
      {
        "condition": "locationupdate.deviceType == client"
      }
    ]
  }
],
"subscribers": [
  {
    "receivers": [
      {
        "uri": "http://127.0.0.1:9094/api/notify/v1/location",
        "messageFormat": "JSON",
        "headers": null,
        "qos": "AT_MOST_ONCE"
      }
    ]
  }
],
"enabled": true,
"internal": true,
"cloud": false,
"enableMacScrambling": false,
"macScramblingSalt": "",
"notificationType": "LocationUpdate"
},
{
  "name": "Nbound Notification",
  "userId": "admin",
  "rules": [
    {
      "conditions": [
        {
          "condition": "locationupdate.deviceType == client"
        }
      ]
    }
  ],
  "subscribers": [
    {
      "receivers": [
        {
          "uri": "https://data.cmxappsandbox.com:443/api/sdk/v1/notifications",
          "messageFormat": "JSON",
          "headers": {
            "x-jwt-token":
"eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ0ZW5hbnRlc2I6ImUzInRlcmFudElkijoAAX0.2S28kXWDSg-GFNfpTYXCKuI_ZrwHLR0cn9XL19DaRm4",
            "Content-Type": "application/json"
          },
          "qos": "AT_MOST_ONCE"
        }
      ]
    }
  ],
  "enabled": true,
  "internal": false,
  "cloud": false,
  "enableMacScrambling": false,
  "macScramblingSalt": "secret",
  "notificationType": "LocationUpdate"
}

```

```

    },
    {
      "name": "gateway-blemgmtadmin-bleinfo-io89bg",
      "userId": "local-user",
      "rules": [
        {
          "conditions": [
            {
              "condition": "bletagupdate.isBle == true"
            },
            {
              "condition": "bletagupdate.deviceType == tag"
            }
          ]
        }
      ],
      "subscribers": [
        {
          "receivers": [
            {
              "uri":
                "https://c2fbkceutepluwest-2.amazonaws.com/43/tag/listener/5f5678-0f-4674-925-8610e7cc3c7c?notificationId=a191c30-8fd-11e7451c4b2368834",
              "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://c2fbkceutepluwest-2.amazonaws.com/43/tag/listener/5f5678-0f-4674-925-8610e7cc3c7c?notificationId=a191c30-8fd-11e7451c4b2368834",
              "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://127.0.0.1:9094/api/ble/v1/notify?deviceType=BLE_TAG_UPDATE&deviceType=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 4: 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 5: 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 6: Parameter Details*

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

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

**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"
}
```

## 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 7: 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 8: Parameter Details*

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

### Content Type

application/json

## PUT: System Alert Subscription

### Description

This API allows you to add a system alert subscription.

### HTTP Method

PUT

### Resource URI

/api/config/v1/notifications/alert

### Requires OAuth

N

## Parameters

*Table 9: Parameter Details*

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



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

**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 10: 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 enables or disables a notification subscription by name.

**HTTP Method**

POST

**Resource URI**

/api/config/v1/notifications/:name/:user

**Requires Basic Auth**

N

**Parameters***Table 11: Parameter Details*

| Name   | Required | Default | Type   | Location    | Description                |
|--------|----------|---------|--------|-------------|----------------------------|
| name   | Y        |         | String | pathReplace | Notification Name          |
| user   | Y        |         | String | pathReplace | Name of Notification Owner |
| action | Y        |         | String | pathReplace | Enable/Disable             |

**Content Type**

application/json

**API History***Table 12: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

## 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 13: Parameter Details*

| <b>Name</b> | <b>Required</b> | <b>Default</b> | <b>Type</b> | <b>Location</b> | <b>Description</b> |
|-------------|-----------------|----------------|-------------|-----------------|--------------------|
| name        | Y               | —              | String      | pathReplace     | Notification Name. |
| action      | Y               | —              | String      | pathReplace     | Enable/Disable     |

**Content Type**

application/json

# Northbound notification types and attributes API

## 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"
    }
}
}
```

# Alerts API

## 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"
  }
]
```

# History alerts API

## 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 14: 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 15: API History*

| Release                | Modification                |
|------------------------|-----------------------------|
| Cisco CMX Release 10.4 | This command is deprecated. |



# Map resources API

## 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": "Noritech Campus",
      "totalBuildings": 1,
      "buildingCounts": [
        {
          "buildingName": "Noritech-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: List of all Building Names.

### Description

This API provides a list of all buildings.

### HTTP Method

GET

### Resource URI

/api/config/v1/maps/building/list/:name

**Requires Basic Auth**

N

**Parameters**

*Table 16: Parameter Details*

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

**Content Type**

application/json

**API History**

*Table 17: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

## GET: List of all Building Names

**Description**

This API provides a list of all buildings.

**HTTP Method**

GET

**Resource URI**

/api/config/v1/maps/building/list

**Requires Basic Auth**

N

**Parameters**

None.

**Content Type**

application/json

**Sample Output (JSON)**

```
[
  "Nortech Campus>Nortech-1",
  "System Campus>SJC24",
  "System Campus>SJC23"
]
```

**API History***Table 18: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

## GET: List of all Floor Names

**Description**

This API provides a list of all Floors in the system.

**HTTP Method**

GET

**Resource URI**

/api/config/v1/maps/floor/list/:name

**Requires Basic Auth**

N

**Parameters***Table 19: Parameter Details*

| Name | Required | Default | Type   | Location    | Description   |
|------|----------|---------|--------|-------------|---------------|
| name | Y        | —       | String | pathReplace | Building Name |

**Content Type**

application/json

**API History***Table 20: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

**GET: List of all Floor Names****Description**

This API provides a list of all floors in the system.

**HTTP Method**

GET

**Resource URI**

/api/config/v1/maps/floor/list

**Requires Basic Auth**

N

**Parameters**

None.

**Content Type**

application/json

**Sample Output (JSON)**

```
[
  "System Campus>SJC23>3rd floor (CCW remodel)",
  "System Campus>SJC23>2nd floor (CCW remodel)",
  "Nortech Campus>Nortech-1>1st Floor",
  "System Campus>SJC23>1st floor (CCW remodel)",
  "System Campus>SJC24>2nd floor (CCW remodel)",
  "System Campus>SJC24>3rd floor (CCW remodel)",
  "System Campus>SJC24>2nd floor (Area Addition)",
  "System Campus>SJC24>1st floor (CCW remodel)"
]
```

**API History***Table 21: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

# 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 22: 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 23: 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 24: 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 25: 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 26: Parameter Details*

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

**Content Type**

application/json

# Sites API

## 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  
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

# System preferences API

## GET: Type of Device

### Description

This API gets the type of box.

### HTTP Method

GET

### Resource URI

/api/config/v1/system/type

### Requires Basic Auth

N

### Parameters

None.

### Content Type

application/json

### Sample Output (JSON)

```
{
  "num_cpus": 20,
  "box_type": "High-End"
}
```

### API History

*Table 27: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

## 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 28: 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 29: 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

## GET: Gets the System Time

**Description****HTTP Method**

GET

**Resource URI**

/api/config/v1/system/time

**Requires OAuth**

N

**Parameters**

None.

**Content Type**

application/json

**Sample Output (JSON)**

```
{
  "ISO8601Utils": "2017-12-18T08:56:16Z",
  "timeZoneOffset": -28800000,
  "serverTimeUTC": 1513587376429,
  "serverTime": "Mon Dec 18 00:56:16 PST 2017",
  "timeZone": "Pacific Standard Time"
}
```

# Opt In Client API

## GET: Hashed MAC for a Given Real Macaddress

### Description

This API returns the hashed MAC for a given real macaddress.

### HTTP Method

GET

### Resource URI

/api/config/v1/optInClientParams/:clusterId/hash

### Requires Basic Auth

N

### Parameters

*Table 30: Parameter Details*

| Name      | Required | Default | Type   | Location    | Description           |
|-----------|----------|---------|--------|-------------|-----------------------|
| clusterId | Y        | 1       | String | pathReplace | clusterId (default 1) |
| realMac   | Y        |         | String | query       | Real macaddress       |

### Content Type

application/json

### API History

*Table 31: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

## GET: List of Opt-In devices

### Description

### HTTP Method

GET

### Resource URI

/api/config/v1/optInClientParams/:clusterId

### Requires Basic Auth

N

### Parameters

*Table 32: Parameter Details*

| Name      | Required | Default | Type   | Location    | Description           |
|-----------|----------|---------|--------|-------------|-----------------------|
| clusterId | Y        | 1       | String | pathReplace | clusterId (default 1) |

### Content Type

application/json

### API History

*Table 33: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

## POST: Add client device(s) to Opt-In List

### Description

You can add devices by either specifying macaddresses or OptInClients. When both are specified, API would give preference to macaddresses. When all the Location and Analytics tracked devices are same, input the macaddresses. When some of the Location devices have not given consent for Analytics tracking, then input them through the OptInClients. It performs an append operation i.e. adding given devices to the existing Opt-In list.

### HTTP Method

POST

**Resource URI**

/api/config/v1/optInClientParams/:clusterId

**Requires Basic Auth**

N

**Parameters**

*Table 34: Parameter Details*

| Name         | Required | Default | Type   | Location    | Description   |
|--------------|----------|---------|--------|-------------|---|
| clusterId    | Y        | 1       | String | pathReplace | clusterId (default 1)   |
| macaddresses | Y        |         | array  | body        | List of real macaddresses separated by comma. Ensure macaddresses are nested within the square brackets [ ] to be considered as list, otherwise this operation would fail |

| Name        | Required | Default | Type  | Location | Description   |
|-------------|----------|---------|-------|----------|---|
| OptInClient | N        |         | array | body     | <p>List of OptInClient. When macaddresses are specified, OptInClient list is optional</p> <p>Ensure OptInClient are nested within the square brackets [ ] to be considered as list, otherwise this operation would fail</p> <p>for e.g.</p> <pre>[{"macaddress": "aa:bb:cc:dd:ee:ff", "analyticsOptIn": true}, {"macaddress": "aa:bb:cc:dd:ee:ff", "analyticsOptIn": true}]</pre> |

**Content Type**

application/json

**API History***Table 35: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

# Zone Count Register API

# Users API

## GET: Generate Password for User

**Description****HTTP Method**

GET

**Resource URI**

/api/config/v1/aaa/genpassword

**Requires Basic Auth**

N

**Parameters**

None.

**Content Type**

application/json

**Sample Output**

```
{
  "generatedPwd": "Qakzw&luxrwreknu"
}
```

## 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 36: 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
}
```

**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: Check for Password expiry

**Description**

This API checks for password expiry

**HTTP Method**

GET

**Resource URI**

/api/config/v1/aaa/evalpassword

**Requires Basic Auth**

N

**Parameters**

None.

**Content Type**

application/json

**Sample Output**

```
{
  "isPasswordExpired": "no"
}
```

**API History**

*Table 37: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.5 | This API is introduced. |

## 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
  }
]
```

# Version API

## 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"
  ]
}
```

# Heterarchy API

## GET: List of Children Superzone IDs of a Heterarchy Element

### Description

The call retrieves children superzone IDs of a heterarchy element and, under them, the AES IDs of the nested children floors. The element is identified by the path of the API call (either the full path or the id of the element—see Add/Update zones or tags for details on obtaining the element id).

### HTTP Method

GET

### Resource URI

/api/config/v1/heterarchy/:pathSegments/childrenfloors

### Requires Basic Auth

N

### Parameters

*Table 38: Parameter Details*

| Name         | Required | Default | Type   | Location    | Description  |
|--------------|----------|---------|--------|-------------|--|
| pathSegments | N        | —       | String | pathReplace | Full path to the element or element id.  |
| validDate    | N        | —       | String | query       | Show elements valid at given date<br>(yyyy-mm-dd HH:mm:ss)<br>Allowed values/formats:<br>yyyy-mm-dd<br>HH:mm:ss. |

| Name  | Required | Default | Type   | Location | Description  |
|-------|----------|---------|--------|----------|--|
| level | N        | —       | String | query    | Level name (SUPERZONE, FLOOR, AP, POI, or ZONE)<br>Allowed values/formats:<br>SUPERZONE<br>FLOOR AP<br>ZONE POI. |

**Content Type**

application/json

**API History**

*Table 39: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |

## GET: Children Superzone IDs of Hierarchy Element

**Description**

The call retrieves children superzone IDs of an heterarchy element and, under them, the counts of all the nested children elements. The element is identified by the path of the API call (either the full path or the ID of the element- see Add/Update zones or tags for details on obtaining the element id). Specifying a level retrieves only children of that level.

**HTTP Method**

GET

**Resource URI**

/api/config/v1/heterarchy/:pathSegments/childrencounts

**Requires Basic Auth**

N

## Parameters

*Table 40: Parameter Details*

| Name         | Required | Default | Type   | Location    | Description  |
|--------------|----------|---------|--------|-------------|--|
| pathSegments | N        | —       | String | pathReplace | Full path to the element or element ID.  |
| validDate    | N        | —       | String | query       | Show elements valid from given date (yyyy-mm-dd HH:mm:ss) Allowed values/formats: yyyy-mm-dd HH:mm:ss. |
| level        | N        | —       | String | query       | Level name (SUPERZONE, FLOOR, AP, POI, or ZONE) Allowed values/formats: SUPERZONE FLOOR AP ZONE POI.   |

## Content Type

application/json

## API History

*Table 41: API History*

| Release                | Modification            |
|------------------------|-------------------------|
| Cisco CMX Release 10.4 | This API is introduced. |