



Cisco Connected Mobile Experiences REST API Guide, Release 10.2

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Preface

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Audience

This document is for network administrators who configure Cisco Connected Mobile Experiences (Cisco CMX) services.

Conventions

This document uses the following conventions:

Table 1: Conventions

Convention	Indication
bold font	Commands and keywords and user-entered text appear in bold font .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
[]	Elements in square brackets are optional.
{x y z }	Required alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string. Otherwise, the string will include the quotation marks.
<code>courier font</code>	Terminal sessions and information the system displays appear in <code>courier font</code> .
<>	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.



Note Means reader take note. Notes contain helpful suggestions or references to material not covered in the manual.



Tip Means the following information will help you solve a problem.



Caution Means reader be careful. In this situation, you might perform an action that could result in equipment damage or loss of data.

Related Documentation

For more information on coding and specific assistance, see:

<https://developer.cisco.com/site/cmx-mobility-services/>

For more information about Cisco Mobility Services Engine and related products, see:

<http://www.cisco.com/c/en/us/support/wireless/mobility-services-engine/tsd-products-support-series-home.html>

For more information about Cisco Connected Mobile Experiences (Cisco CMX), see:

<http://www.cisco.com/c/en/us/solutions/enterprise-networks/connected-mobile-experiences/index.html>

For more information about Cisco DNA Spaces, see:

<https://support.dnaspaces.io/>

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.



Analytics

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POST: Breakdown of Dwell Times Spent by Devices for a Given Period and Areas

Description

The only parameter (body) is a JSON array containing the parameters. The parameters are described below:

Table 2: Parameter Details

JSON Array Parameter	Description	Allowable Values/Formats
granularity	The desired granularity.	<ul style="list-style-type: none"> • hourly • daily • weekly • monthly • yearly • tag • tag-name • heterarchy level. One can limit to top "n" results (that is, the "n" values with highest count) by adding "[n]", or the "n" bottom results by adding "[n]"
period	The period of interest, specified as either a date range, or one of the predefined names.	<ul style="list-style-type: none"> • yyyy-mm-dd • yyyy-mm-dd;yyyy-mm-dd • today • yesterday • this week • last week • last 2 weeks • this month • last month • last 3 months • this year • last year • forever
timeRange	The time window of interest on each day.	<ul style="list-style-type: none"> • HH:mm-HH:mm
aggregate	Aggregate the dwell time by granularity, for example, showing the total dwell time for each day of the week, instead of individual dates.	<ul style="list-style-type: none"> • none • sum • avg

JSON Array Parameter	Description	Allowable Values/Formats
areas	The list of areas of interest. If none are provided, all are considered.	A comma-separated list of area IDs, or hierarchy levels.
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values: <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440
includeStationary	Whether to include stationary devices (default=false).	<ul style="list-style-type: none"> • true • false

JSON Array Parameter	Description	Allowable Values/Formats
connectionState	Whether to restrict connection to either connected or detected devices (default=all).	<ul style="list-style-type: none"> connected detected all
percentageOf	If set this parameter, does not report absolute numbers, only relative percentage.	Heterarchy level
dwellLimits	The dwell time limit that specifies how dwellers should be grouped together. Pass -1 to catch all. Example: Light: 100, Medium: 200, Heavy:-1.	<ul style="list-style-type: none"> default minute comma separated limit label:limit value
areaFilter	<p>If set this parameter, restricts the results to areas matching the filter. Use descendantOf to restrict the area selection. This option is used for drill-down reports. Use 'subsetOf' to restrict the granularity. This option is used with tag granularity.</p> <p>For example: descendantOf: Campus C1 has Building B1 which zone Z1 and Z2 Campus C2 has Building B2 which zone Z3 query area=Z1,Z2,Z3 and granularity=Building and areaFilter=descendantOf:C1 will return only Building B1</p> <p>For example: subsetOf: Tag T1,T2 assigned to F1, T2,T3 to F2, T3,T4 to F3 query area=F1,F2,F3 and granularity=tag and areaFilter=subsetOf:T1,T2 will return only T1,T2.</p>	<ul style="list-style-type: none"> descendantOf subsetOf:comma separated ids
expandAll	Include all the elements descendants in the result.	<ul style="list-style-type: none"> true false

HTTP Method

POST

Resource URI

/api/analytics/v1/dwellBreakdown

Requires Basic Auth

N

Parameters*Table 3: Parameter Details*

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters.

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "granularity": "hourly",
  "areas": "52,75"
}
```

Sample Output (JSON)

```
{
  "startTime": "00:00",
  "startDate": "2017-03-16",
  "results": [
    {
      "id": 53,
      "ancestry": [
        {
          "level": "Building",
          "name": "REQ"
        },
        {
          "level": "Campus",
          "name": "Richfield"
        }
      ],
      "series": [
        "datetime",
        "dwell"
      ],
      "hasChildren": false,
      "area": "2nd Floor",
      "data": []
    },
    {
      "id": 75,
      "ancestry": [
        {
          "level": "Floor",
          "name": "Site 4"
        }
      ],

```

```
{
  "level": "Building",
  "name": "Site 4"
},
{
  "level": "Campus",
  "name": "San Jose Outdoor"
}
],
"series": [
  "datetime",
  "dwell"
],
"hasChildren": false,
"area": "f4:0f:1b:1a:82:90",
"data": []
}
],
"interval": "hourly",
"executionTime": 0,
"insights": {
  "summary": {}
},
"endDate": "2017-03-16",
"maxValues": {},
"endTime": "23:59",
"dataFreshness": "2017-03-16T02:53:58.054-07:00",
"minValues": {}
}
```

POST: Breakdown of Connected and Detected Devices for a Given Period and Areas

Description

This API gives a breakdown of connected and detected devices for a given period and areas. The only parameter (body) is a JSON array containing the parameters. The parameters are described below

Table 4: Parameter Details

JSON array parameter	Description	Allowable values/formats
granularity	The desired granularity. One can limit to top n results (i.e. the n values with highest count) by adding "[n]", or the n bottom results by adding "[-n]". If granularity null is specified, all heterarchy types covered by the areas are returned.	<ul style="list-style-type: none"> hourly daily weekly monthly yearly tag tag-name heterarchy level null
period	The period of interest, either specified as a date range, or one of the predefined names	<ul style="list-style-type: none"> yyyy-mm-dd yyyy-mm-dd;yyyy-mm-dd today yesterday this week last week last 2 weeks this month last month last 3 months this year last year forever
timeRange	The time window of interest on each day.	<ul style="list-style-type: none"> HH:mm-HH:mm
aggregate	Whether to aggregate the dwell time by granularity; e.g. showing a total for each day of the week, instead of individual dates	<ul style="list-style-type: none"> none sum avg
areas	The list of areas of interest. If none are given, all are considered	<p>A comma-separated list of area ids, or heterarchy levels</p> <pre><areaId> <areaId-1>,<areaId-2>,<areaId-3></pre>

JSON array parameter	Description	Allowable values/formats
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values: <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440
includeStationary	Whether to include stationary devices (default=false)	<ul style="list-style-type: none"> • true • false
percentageOf	If set, does not report absolute numbers, but relative percentage	Heterarchy level

JSON array parameter	Description	Allowable values/formats
areaFilter	<p>If set, restricts the results to areas matching the filter. Use 'descendantOf' to restrict the area selection. This option is used for drill down reports. Use 'subsetOf' to restrict the granularity. This option is used with tag granularity.</p> <p>For example: descendantOf: Campus C1 has Building B1 which zone Z1 and Z2 Campus C2 has Building B2 which zone Z3 query area=Z1,Z2,Z3 and granularity=Building and areaFilter=descendantOf:C1 will return only Building B1</p> <p>For example: subsetOf: Tag T1,T2 assigned to F1, T2,T3 to F2, T3,T4 to F3 query area=F1,F2,F3 and granularity=tag and areaFilter=subsetOf:T1,T2 will return only T1,T2.</p>	<ul style="list-style-type: none"> • descendantOf • subsetOf:comma separated ids
expandAll	Include all of the elements descendants in the result	<ul style="list-style-type: none"> • true • false

HTTP Method

POST

Resource URI

/api/analytics/v1/connectedDetected

Requires Basic Auth

N

Parameters*Table 5: Parameter Details*

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters.

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "granularity": "hourly",
  "areas": "5786"
}
```

Sample Output (JSON)

```
{
  "startTime": "00:00",
  "startDate": "2017-03-16",
  "results": [
    {
      "id": 5786,
      "ancestry": [
        {
          "level": "Campus",
          "name": "Noritech Campus"
        }
      ],
      "startDate": "2017-03-16",
      "series": [
        "datetime"
      ],
      "hasChildren": true,
      "area": "Noritech-1",
      "data": [
        {
          "dwell": null,
          "values": {
            "connected": 0,
            "detected": 0
          },
          "name": null
        },
        {
          "dwell": null,
          "values": {
            "connected": 0,
            "detected": 0
          },
          "name": null
        },
        {
          "dwell": null,
          "values": {
            "connected": 0,
            "detected": 0
          },
          "name": null
        },
        {
          "dwell": null,
          "values": {
            "connected": 0,
            "detected": 0
          },
          "name": null,
          "incomplete": true
        }
      ]
    }
  ]
}
```



```
    }
  ],
  "interval": "hourly",
  "executionTime": 18,
  "insights": {
    "summary": {},
    "connected": {
      "ancestry": [
        {
          "level": "Campus",
          "name": "Nortech Campus"
        }
      ],
      "id": 5786,
      "index": 0,
      "maxDate": "2017-03-16",
      "name": "Nortech-1",
      "maxTime": "00:00",
      "maxValue": 0
    },
    "detected": {
      "ancestry": [
        {
          "level": "Campus",
          "name": "Nortech Campus"
        }
      ],
      "id": 5786,
      "index": 0,
      "maxDate": "2017-03-16",
      "name": "Nortech-1",
      "maxTime": "00:00",
      "maxValue": 0
    }
  },
  "endDate": "2017-03-16",
  "maxValues": {
    "connected": 0,
    "detected": 0
  },
  "endTime": "23:59",
  "dataFreshness": "2017-03-16T02:53:55.919-07:00",
  "minValues": {
    "connected": 0,
    "detected": 0
  }
}
```

POST: Paths for a Given Period and Areas

Description

The only parameter (body) is a JSON array containing the parameters. The parameters are described below:

Table 6: Parameter Details

JSON parameter	Description	Allowable values/formats
period	The period of interest, either specified as a date range, or one of the predefined names	<ul style="list-style-type: none"> • yyyy-mm-dd • yyyy-mm-dd;yyyy-mm-dd • today • yesterday • this week • last week • last 2 weeks • this month • last month • last 3 months • this year • last year • forever
timeRange	The time window of interest on each day.	• HH:mm-HH:mm
targetArea	The ID of the target area for the paths.	The ID of the target area for the paths.
allAreas	The list of areas of interest.	A comma-separated list of area IDs <areaId-1>,<areaId-2>,<areaId-3>
granularity	The desired geographical granularity. This will replace the areas listed in 'allAreas' with their progeny on the appropriate level.	Heterarchy level

JSON parameter	Description	Allowable values/formats
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	<p>Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values:</p> <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440

HTTP Method

POST

Resource URI

/api/analytics/v1/path

Requires Basic Auth

N

Parameters*Table 7: Parameter Details*

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters.

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "granularity": "Building",
  "allAreas": "52,75,80"
}
```

Sample Output (JSON)

```
/* Path Output */
{
  "startTime": "00:00",
  "startDate": "2017-03-07",
  "results": [
    {
      "id": 75,
      "total": 0,
      "medianTransitionTime": 0,
      "ancestry": [
        {
          "level": "Campus",
          "name": "TagTest_Campus_1"
        }
      ],
      "area": "TagTest_Building_1",
      "direction": -1,
      "value": 0,
      "averageTransitionTime": 0
    },
    {
      "id": 80,
      "total": 0,
      "medianTransitionTime": 0,
      "ancestry": [
        {
          "level": "Campus",
          "name": "TagTest_Campus_1"
        }
      ],
    }
  ],
}
```

```

        "area": "TagTest_Building_2",
        "direction": -1,
        "value": 0,
        "averageTransitionTime": 0
    },
    {
        "id": 75,
        "total": 0,
        "medianTransitionTime": 0,
        "ancestry": [
            {
                "level": "Campus",
                "name": "TagTest_Campus_1"
            }
        ],
        "area": "TagTest_Building_1",
        "direction": 1,
        "value": 0,
        "averageTransitionTime": 0
    },
    {
        "id": 80,
        "total": 0,
        "medianTransitionTime": 0,
        "ancestry": [
            {
                "level": "Campus",
                "name": "TagTest_Campus_1"
            }
        ],
        "area": "TagTest_Building_2",
        "direction": 1,
        "value": 0,
        "averageTransitionTime": 0
    }
],
"executionTime": 88,
"requestTruncated": false,
"target": {
    "ancestry": [
        {
            "level": "Campus",
            "name": "campus"
        }
    ]
},
"total": 0,
"id": 52,
"area": "Building_0",
"pathsEnded": 0,
"totalVisits": 0,
"pathsStarted": 0,
"avgDwellPerDevice": 0,
"avgDwellPerVisit": 0,
"totalDevices": 0
},
"insights": {},
"endDate": "2017-03-07",
"endTime": "23:59",
"dataFreshness": {
    "dayOfYear": 66,
    "dayOfMonth": 7,
    "dayOfWeek": 2,
    "era": 1,
    "year": 2017,

```

```
    "minuteOfDay": 1277,
    "hourOfDay": 21,
    "weekyear": 2017,
    "monthOfYear": 3,
    "yearOfEra": 2017,
    "yearOfCentury": 17,
    "centuryOfEra": 20,
    "millisOfSecond": 782,
    "millisOfDay": 76673782,
    "secondOfMinute": 53,
    "secondOfDay": 76673,
    "minuteOfHour": 17,
    "weekOfWeekyear": 10,
    "millis": 1488921473782,
    "zone": {
      "fixed": true,
      "id": "Etc/UTC"
    },
    "chronology": {
      "zone": {
        "fixed": true,
        "id": "Etc/UTC"
      }
    },
    "afterNow": false,
    "beforeNow": false,
    "equalNow": true
  }
}
```

GET: All summary KPI

Description

This API retrieves summary of all KPI.

HTTP Method

GET

Resource URI

/api/analytics/v1/summary

Requires Basic Auth

N

Parameters

None.

Sample Output (JSON)

```
{
  "Top Building dwell": {
    "title": "Top Building dwell",
    "value": {
      "primary": "Nortech-1 (5572.52 min)",
      "secondary": [
        "SJC23 (0.00 min)",
        "SJC24 (0.00 min)",
        "Shell- CBuilding (0.00 min)"
      ],
      "supplementary": "SJC23 (0.00 min)<br/>SJC24 (0.00 min)<br/>Shell- CBuilding (0.00 min)<br/>"
    }
  },
  "Notifications Received": {
    "title": "Notifications Received Rate (5 min avg)",
    "value": {
      "primary": "2.04 notifications/s",
      "secondary": [
        "1 min avg: 2.07",
        "15 min avg: 1.84",
        "Avg since boot: 4.23",
        "Total number of events: 3774166"
      ],
      "supplementary": "1 min avg: 2.07<br/>15 min avg: 1.84<br/>Avg since boot: 4.23<br/>Total number of events: 3774166"
    }
  },
  "RSSI experience": {
    "title": "RSSI experience",
    "value": {
      "primary": "No devices detected",
      "secondary": [

```

```

        "No devices detected"
    ],
    "supplementary": "No devices detected"
  }
},
"Uptime": {
  "title": "Uptime",
  "value": {
    "primary": "10 days, 07:35",
    "secondary": [
      "Processors: 20",
      "Max mem: 4528 MiB",
      "Memory: 2849/4528 MiB",
      "Threads: 169"
    ]
  },
  "supplementary": "Processors: 20<br/>Max mem: 4528 MiB<br/>Memory: 2849/4528
MiB<br/>Threads: 169"
}
},
"Connected": {
  "title": "Connected",
  "value": {
    "primary": "1916.33%",
    "secondary": [
      "Total: 392",
      "Detected: -7120 (-1816.33%)",
      "Connected: 7512 (1916.33%)"
    ]
  },
  "supplementary": "Total: 392<br/>Detected: -7120 (-1816.33%)<br/>Connected:
7512 (1916.33%)<br/>"
}
},
"Aggregation performance": {
  "title": "Aggregation performance",
  "value": {
    "primary": "534930964.29 / 0",
    "secondary": [
      "API misses (rate): 166(0) / 0(0) <br/>",
      "API misses as % of total API calls: 9.22/□<br/>",
      "Background updates (rate): 0(0) / 0(0) <br/>"
    ]
  },
  "supplementary": "API misses (rate): 166(0) / 0(0) <br/><br/>API misses as %
of total API calls: 9.22/□<br/><br/>Background updates (rate): 0(0) / 0(0) <br/>"
},
"recordRefreshCounts": {
  "pathRecordsRefreshed": 0,
  "repeatRecordsRefreshed": 0,
  "derivedRecordsRefreshed": 0,
  "hourVisitsUpdated": 121942,
  "areaVisitsUpdated": 119586,
  "crossoverRecordsRefreshed": 0
}
},
"Top Campus count": {
  "title": "Top Campus count",
  "value": {
    "primary": "Nortech Campus (356)",
    "secondary": [
      "Shell (0)",
      "System Campus (0)"
    ]
  },
  "supplementary": "Shell (0)<br/>System Campus (0)<br/>"
}
},

```



```

"Database I/O": {
  "title": "Database I/O Rate (5 min avg)",
  "value": {
    "primary": "0.57 operations/s",
    "secondary": [
      "1 min avg: 0.07",
      "15 min avg: 0.53",
      "Avg since boot: 0.46",
      "Total number of events: 409932"
    ],
    "supplementary": "1 min avg: 0.07<br>15 min avg: 0.53<br>Avg since boot:
0.46<br>Total number of events: 409932"
  }
},
"Top Floor dwell": {
  "title": "Top Floor dwell",
  "value": {
    "primary": "1st Floor (5572.53 min)",
    "secondary": [
      "1st floor (CCW remodel) (0.00 min)",
      "2nd floor (Area Addition) (0.00 min)",
      "2nd floor (CCW remodel) (0.00 min)"
    ],
    "supplementary": "1st floor (CCW remodel) (0.00 min)<br>2nd floor (Area Addition)
(0.00 min)<br>2nd floor (CCW remodel) (0.00 min)<br>"
  }
},
"Active devices": {
  "title": "Active devices",
  "value": {
    "primary": 356,
    "secondary": [
      "Most recent detection: 17s ago"
    ],
    "supplementary": "Most recent detection: 17s ago"
  }
},
"Top Campus dwell": {
  "title": "Top Campus dwell",
  "value": {
    "primary": "Nortech Campus (5572.53 min)",
    "secondary": [
      "Shell (0.00 min)",
      "System Campus (0.00 min)"
    ],
    "supplementary": "Shell (0.00 min)<br>System Campus (0.00 min)<br>"
  }
},
"Analysis API calls": {
  "title": "Analysis API calls",
  "value": {
    "primary": "Meter not active yet",
    "secondary": [
      "Please wait while data is being collected."
    ],
    "supplementary": "Please wait while data is being collected."
  }
},
"Zone API Calls": {
  "title": "Zone API Calls",
  "value": {
    "primary": "Meter not active yet",
    "secondary": [
      "Please wait while data is being collected."
    ]
  }
}

```

```

    ],
    "supplementary": "Please wait while data is being collected."
  }
},
"Top Zone dwell": {
  "title": "Top Zone dwell",
  "value": {
    "primary": "CMX Bar (5959.07 min)",
    "secondary": [
      "School (5763.90 min)",
      "Tm (4175.67 min)",
      "CMX Clinic (1783.57 min)"
    ],
    "supplementary": "School (5763.90 min)<br/>Tm (4175.67 min)<br/>CMX Clinic
(1783.57 min)<br/>"
  }
},
"Top Manufacturer": {
  "title": "Top Manufacturer",
  "value": {
    "primary": "Cisco Systems, Inc (310)",
    "secondary": [
      "Aeroscout Ltd. (78)",
      "G2 Microsystems (44)",
      "Hon Hai Precision Ind. Co.,Ltd. (21)"
    ],
    "supplementary": "Aeroscout Ltd. (78)<br/>G2 Microsystems (44)<br/>Hon Hai
Precision Ind. Co.,Ltd. (21)<br/>"
  }
},
"Top Zone count": {
  "title": "Top Zone count",
  "value": {
    "primary": "CMX Clinic (106)",
    "secondary": [
      "Tm (86)",
      "CMX Bar (44)",
      "School (20)"
    ],
    "supplementary": "Tm (86)<br/>CMX Bar (44)<br/>School (20)<br/>"
  }
},
"Top Building count": {
  "title": "Top Building count",
  "value": {
    "primary": "Nortech-1 (356)",
    "secondary": [
      "SJC23 (0)",
      "SJC24 (0)",
      "Shell- CBuilding (0)"
    ],
    "supplementary": "SJC23 (0)<br/>SJC24 (0)<br/>Shell- CBuilding (0)<br/>"
  }
},
"Overall Analytics API Calls": {
  "title": "Overall Analytics API Calls Rate (5 min avg)",
  "value": {
    "primary": "0.00 calls/s",
    "secondary": [
      "1 min avg: 0.00",
      "15 min avg: 0.00",
      "Avg since boot: 0.00",
      "Total number of events: 0"
    ],
  },

```

```

        "supplementary": "1 min avg: 0.00</br>15 min avg: 0.00</br>Avg since boot:
0.00</br>Total number of events: 0"
    }
},
"Notification processing time": {
    "title": "Notification processing time (avg duration)",
    "value": {
        "primary": "2.13 ms",
        "secondary": [
            "Min: 0 ms",
            "Max: 9 ms",
            "StDev: 0.94"
        ],
        "supplementary": "Min: 0 ms</br>Max: 9 ms</br>StDev: 0.94"
    }
},
"Location API Calls": {
    "title": "Location API Calls",
    "value": {
        "primary": "Meter not active yet",
        "secondary": [
            "Please wait while data is being collected."
        ],
        "supplementary": "Please wait while data is being collected."
    }
},
"Paths API Calls": {
    "title": "Paths API Calls",
    "value": {
        "primary": "Meter not active yet",
        "secondary": [
            "Please wait while data is being collected."
        ],
        "supplementary": "Please wait while data is being collected."
    }
},
"Age of updated aggregation records": {
    "title": "Age of updated aggregation records",
    "value": {
        "primary": "Meter not active yet",
        "secondary": [
            "Please wait while data is being collected."
        ],
        "supplementary": "Please wait while data is being collected."
    }
},
"Top Floor count": {
    "title": "Top Floor count",
    "value": {
        "primary": "1st Floor (356)",
        "secondary": [
            "1st floor (CCW remodel) (0)",
            "2nd floor (Area Addition) (0)",
            "2nd floor (CCW remodel) (0)"
        ],
        "supplementary": "1st floor (CCW remodel) (0)<br/>2nd floor (Area Addition)
(0)<br/>2nd floor (CCW remodel) (0)<br/>"
    }
},
"Heterarchy": {
    "title": "Heterarchy",
    "value": {
        "primary": "199 active elements",
        "secondary": [

```

```
        "Elements: 199/54 [act/inact]",
        "APs: 158/39",
        "POIs: 0/0",
        "PATHs: 0/0",
        "Floors: 8/1",
        "Tags: 19/0",
        "Userlevels: 4/0",
        "Zones: 5/12"
    ],
    "supplementary": "Elements: 199/54 [act/inact]<br/>APs: 158/39<br/>POIs:
0/0<br/>PATHs: 0/0<br/>Floors: 8/1<br/>Tags: 19/0<br/>Userlevels: 4/0<br/>Zones: 5/12"
}
}
}
```

GET: Specific set of Summary KPIs or a list of available ones

Description

This API retrieves a specific set of summary KPIs or a list of available ones.

HTTP Method

GET

Resource URI

/api/analytics/v1/summary/:summaryItem

Requires Basic Auth

N

Parameters

Table 8: Parameter Details

Name	Required	Default	Type	Location	Description
summaryItem	Y	—	String	pathReplace	A comma-separated list of summary KPI to return, or 'availableMetrics' to see the list of metrics available. Use the title parameter.

Content Type

application/json

Sample Output (JSON)

```
{
  "Top Building dwell": {
    "title": "Top Building dwell",
    "value": {
      "secondary": [],
      "supplementary": "",
      "primary": "Nortech Building (0.00 min)"
    }
  }
}
```

POST: Overview Data for Target Areas for Brochure View

Description

This task retrieves overview Data for Target Areas for Brochure View

Table 9: Parameter Details

JSON body parameter	Description	Allowable values/formats
type	The type of data requested	<ul style="list-style-type: none"> • deviceCount • deviceDwell • grossShopping • deviceCrossover • connectedDetected • dwellBreakdown
period	The period of interest, either specified as a date range, or one of the predefined names	<ul style="list-style-type: none"> • yyyy-mm-dd • yyyy-mm-dd;yyyy-mm-dd • today • yesterday • this week • last week • last 2 weeks • this month • last month • last 3 months • this year • last year • forever
timeRange	The time window of interest on each day	<ul style="list-style-type: none"> • HH:mm-HH:mm
areas	The list of areas of interest. If none are given, all are considered	A comma-separated list of area ids, or heterarchy levels

JSON body parameter	Description	Allowable values/formats
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	<p>Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values:</p> <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440
includeStationary	Whether to include stationary devices (default=false)	<ul style="list-style-type: none"> • true • false

JSON body parameter	Description	Allowable values/formats
entirePeriod	Whether to include device visits that occur any time during the entire period or only within a single day (default=false). Applicable only to crossover; ignored for the other metrics.	<ul style="list-style-type: none"> • true • false
connectionState	Whether to restrict to either connected or detected devices (default=all). For Connected/Detected metric, this setting is ignored, and "all" is presumed	<ul style="list-style-type: none"> • connected • detected • all
percentageOf	If set, does not report absolute numbers, but relative percentage. Ignored for Crossover report	Heterarchy level
dwelLimits	The dwell time limits that specifies how dwellers should be grouped together. Values are comma seperated as key:value pairs. Key is the series name and value is the upper dwell time limit of the series. For example, Light:5,Medium:20,Heavy:100 would mean that you consider devices that dwell for less than 5 minutes to be Light; from 5 minutes to 20 minutes to be Medium; and from 20 minutes to 100 to be Heavy. If you want to consider all dwells, pass in -1 as the value.	<ul style="list-style-type: none"> • default • minute • Light:<limit>,Medium:<limit>,Heavy:<limit> • comma separated limit label:limit value

HTTP Method

POST

Resource URI

/api/analytics/v1/overview

Requires Basic Auth

N

Parameters

Table 10: Parameter Details

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "areas": "52",
  "type": "deviceCount"
}
```

Sample Output (JSON)

```
{
  "startTime": "00:00",
  "previousEndDate": null,
  "startDate": "2017-03-16",
  "title": "Visitors",
  "executionTime": 32,
  "value": {
    "primary": {
      "title": "Total Visitors",
      "value": 0,
      "peakValue": 0,
      "breakdown": [
        {
          "title": "Repeat Visitors",
          "value": 0
        },
        {
          "title": "New Visitors",
          "value": 0
        }
      ]
    }
  },
  "average": {
    "title": "Total Visitors",
    "value": 0,
    "peakValue": 0,
    "breakdown": [
      {
        "title": "Repeat Visitors",
        "value": 0
      },
      {
        "title": "New Visitors",
        "value": 0
      }
    ]
  }
}
```

```
    ]
  },
  "previousTimeRange": {
    "title": "Total Visitors",
    "value": 0,
    "peakValue": 0,
    "breakdown": [
      {
        "title": "Repeat Visitors",
        "value": 0
      },
      {
        "title": "New Visitors",
        "value": 0
      }
    ]
  }
},
"areas": [
  {
    "id": 52,
    "name": "f0:25:72:3c:f8:10"
  }
],
"previousStartDate": "2017-03-15",
"endDate": null,
"endTime": "23:59"
}
```

POST: Dwell Time for a Given Period and Areas

Description

This API retrieves dwell Time for a given period and areas. The only parameter is a JSON array containing the parameters. The parameters are described below

Table 11: Parameter Details

JSON array parameter	Description	Allowable values/formats
granularity	The desired granularity. One can limit to top n results (i.e. the n values with highest count) by adding "[n]", or the n bottom results by adding "[-n]". If granularity null is specified, all heterarchy types covered by the areas are returned.	<ul style="list-style-type: none"> • hourly • daily • weekly • monthly • yearly • tag • tag-name • heterarchy level • null
period	The period of interest, either specified as a date range, or one of the predefined names	<ul style="list-style-type: none"> • yyyy-mm-dd • yyyy-mm-dd;yyyy-mm-dd • today • yesterday • this week • last week • last 2 weeks • this month • last month • last 3 months • this year • last year • forever
timeRange	The time window of interest on each day	<ul style="list-style-type: none"> • HH:mm-HH:mm
aggregate	Whether to aggregate the dwell time by granularity; e.g. showing a total for each day of the week, instead of individual dates	<ul style="list-style-type: none"> • none • sum • avg
areas	The list of areas of interest. If none are given, all are considered	<p>A comma-separated list of area ids, or heterarchy levels</p> <pre><areaId> <areaId-1>,<areaId-2>,<areaId-3></pre>

JSON array parameter	Description	Allowable values/formats
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values: <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440
includeStationary	Whether to include stationary devices	<ul style="list-style-type: none"> • true • false
connectionState	Whether to restrict to either connected or detected devices (default=all)	<ul style="list-style-type: none"> • connected • detected • all

JSON array parameter	Description	Allowable values/formats
percentageOf	If set, does not report absolute numbers, but relative percentage	Heterarchy level
areaFilter	<p>If set, restricts the results to areas matching the filter. Use 'descendantOf' to restrict the area selection. This option is used for drill down reports. Use 'subsetOf' to restrict the granularity. This option is used with tag granularity.</p> <p>For example: descendantOf: Campus C1 has Building B1 which zone Z1 and Z2 Campus C2 has Building B2 which zone Z3 query area=Z1,Z2,Z3 and granularity=Building and areaFilter=descendantOf:C1 will return only Building B1</p> <p>For example: subsetOf: Tag T1,T2 assigned to F1, T2,T3 to F2, T3,T4 to F3 query area=F1,F2,F3 and granularity=tag and areaFilter=subsetOf:T1,T2 will return only T1,T2.</p>	<ul style="list-style-type: none"> • descendantOf • subsetOf:comma separated ids
expandAll	Include all of the elements descendants in the result	<ul style="list-style-type: none"> • true • false

HTTP Method

POST

Resource URI

/api/analytics/v1/deviceDwell

Requires Basic Auth

N

Parameters*Table 12: Parameter Details*

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters.

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "granularity": "hourly",
  "areas": "52,75"
}
```

Sample Output (JSON)

```
{
  "startTime": "00:00",
  "startDate": "2017-03-16",
  "connectionState": "all",
  "results": [
    {
      "id": 53,
      "ancestry": [
        {
          "level": "Building",
          "name": "REQ"
        },
        {
          "level": "Campus",
          "name": "Richfield"
        }
      ],
      "series": [
        "datetime"
      ],
      "hasChildren": false,
      "level": "FLOOR",
      "area": "2nd Floor",
      "data": []
    },
    {
      "id": 75,
      "ancestry": [
        {
          "level": "Floor",
          "name": "Site 4"
        },
        {
          "level": "Building",
          "name": "Site 4"
        },
        {
          "level": "Campus",
          "name": "San Jose Outdoor"
        }
      ],
      "series": [
        "datetime"
      ],
      "hasChildren": false,
      "level": "AP",
      "area": "f4:0f:1b:1a:82:90",
      "data": []
    }
  ],
  "interval": "hourly",
  "executionTime": 0,
  "minValue": 2147483647,
}
```

```
"endDate": "2017-03-16",  
"endTime": "23:59",  
"dataFreshness": "2017-03-16T02:58:04.319-07:00",  
"maxValue": 0  
}
```

POST: Device Count for a Given Period and Areas

Description

This API retrieves the device count for a given period and areas.

The only parameter (body) is a JSON array containing the parameters. The parameters are described below

Table 13: Parameter Details

JSON array parameter	Description	Allowable values/formats
granularity	The desired granularity. One can limit to top n results (i.e. the n values with highest count) by adding "[n]", or the n bottom results by adding "[-n]". If granularity null is specified, all heterarchy types covered by the areas are returned.	<ul style="list-style-type: none"> • hourly • daily • weekly • monthly • yearly • tag • tag-name • heterarchy level • null
period	The period of interest, either specified as a date range, or one of the predefined names	<ul style="list-style-type: none"> • yyyy-mm-dd • yyyy-mm-dd;yyyy-mm-dd • today • yesterday • this week • last week • last 2 weeks • this month • last month • last 3 months • this year • last year • forever
timeRange	The time window of interest on each day.	<ul style="list-style-type: none"> • HH:mm-HH:mm

JSON array parameter	Description	Allowable values/formats
aggregate	Whether to aggregate the dwell time by granularity; e.g. showing a total for each day of the week, instead of individual dates	<ul style="list-style-type: none"> • none • sum • avg
areas	The list of areas of interest. If none are given, all are considered	A comma-separated list of area ids, or heterarchy levels
durationCategories	Filter devices by dwell times for which device visits specified areas. If a device's dwell time falls outside of the range, it is filtered out and not considered a visit.	<p>Time (in minutes) in the form nn-mm where nn is the lower limit and mm the upper limit. The maximum upper limit is 1440 minutes; which is 24 hours, or a full day. Accepted Values:</p> <ul style="list-style-type: none"> • 0-240 • 0-480 • 0-1440 • 5-240 • 5-480 • 5-1440 • 10-240 • 10-480 • 10-1440 • 15-240 • 15-480 • 15-1440 • 30-240 • 30-480 • 30-1440 • 45-240 • 45-480 • 45-1440 • 60-240 • 60-480 • 60-1440

JSON array parameter	Description	Allowable values/formats
includeStationary	Whether to include stationary devices (default=false)	<ul style="list-style-type: none"> • true • false
connectionState	Whether to restrict to either connected or detected devices (default=all)	<ul style="list-style-type: none"> • connected • detected • all
percentageOf	If set, does not report absolute numbers, but relative percentage	Heterarchy level
areaFilter	<p>If set, restricts the results to areas matching the filter. Use 'descendantOf' to restrict the area selection. This option is used for drill down reports. Use 'subsetOf' to restrict the granularity. This option is used with tag granularity.</p> <p>For example: descendantOf: Campus C1 has Building B1 which zone Z1 and Z2 Campus C2 has Building B2 which zone Z3 query area=Z1,Z2,Z3 and granularity=Building and areaFilter=descendantOf:C1 will return only Building B1</p> <p>For example: subsetOf: Tag T1,T2 assigned to F1, T2,T3 to F2, T3,T4 to F3 query area=F1,F2,F3 and granularity=tag and areaFilter=subsetOf:T1,T2 will return only T1,T2.</p>	<ul style="list-style-type: none"> • descendantOf • subsetOf:comma separated ids
expandAll	Include all of the elements descendants in the result	<ul style="list-style-type: none"> • true • false

HTTP Method

POST

Resource URI

/api/analytics/v1/deviceCount

Requires Basic Auth

N

Parameters

Table 14: Parameter Details

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters

Content Type

application/json

Sample Input (JSON)

```
{
  "period": "today",
  "timeRange": "00:00-23:59",
  "granularity": "Building",
  "areas": "52,75,80"
}
```

Sample Output (JSON)

```
{
  "startTime": "00:00",
  "startDate": "2017-03-16",
  "connectionState": "all",
  "results": [
    {
      "id": -1,
      "ancestry": [],
      "series": [],
      "hasChildren": false,
      "level": "SUPERZONE",
      "area": "Unknown area",
      "data": []
    }
  ],
  "interval": null,
  "executionTime": 23,
  "minValue": 2147483647,
  "endDate": "2017-03-16",
  "endTime": "23:59",
  "dataFreshness": "2017-03-16T03:00:28.833-07:00",
  "maxValue": 0
}
```

GET: Repeat Device Status for One Area

Description

Returns whether a device was seen as a repeat device in a particular area within the last 6 months.

HTTP Method

GET

Resource URI

/api/analytics/v1/isRepeatDevice/{deviceMac}/{areaId}

Requires OAuth

N

Parameters

Table 15: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00
areaId	Y	—	String	query	Global ID of heterarchy element. For example, 2654

Content Type

application or json

Sample Response

```
{ isRepeat : true }
{ isRepeat : false }
```

GET: Repeat Device Status for All Areas

Description

Returns whether a device was seen as a repeat device in any area within your heirarchy within the last 6 months. .

HTTP Method

GET

Resource URI

/api/analytics/v1/isRepeatDevice/{deviceMac}

Requires Basic Auth

N

Parameters

Table 16: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00

Content Type

application or json

Sample Response

```
{ isRepeat : true }
```

```
{ isRepeat : false }
```

GET: Repeat Device Status for One Area

Description

Returns detailed information of a repeat device within the last 6 months in a given area using the MAC address of the device.

HTTP Method

GET

Resource URI

/api/analytics/v1/repeatDeviceStats/{deviceMac}/{areaId}

Requires Basic Auth

N

Parameters

Table 17: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00
areaId	Y	—	String	query	Global ID of heterarchy element. For example, 5540

Content Type

application or json

Sample Response

```
{
  "results": [
    {
      "id": 5540,
      "lastMonthSeen": "October",
      "name": "SJC-23",
      "userLevel": "Building",
      "children": [
        {
          "id": 5498,
          "lastMonthSeen": "October",
          "name": "2nd floor",
          "userLevel": "Floor",
          "daysSeenInLast30": [
            ]
        }
      ]
    }
  ],
}
```

```

    {
      "id": 5539,
      "lastMonthSeen": "July",
      "name": "3rd Floor",
      "userLevel": "Floor",
      "daysSeenInLast30": [
        ]
      }
    ],
    "daysSeenInLast30": [
      ]
  }
]
}

```

Table 18: Response Description

lastMonthSeen	The name of the latest month the device was seen in a particular area, with the search going as far back as six months
name	The name of the area as seen in the heterarchy.
userLevel	The name of the heterarchy 'level' (i.e. Campus/Building/Floor/Zone)
daysSeenInLast30	List of dates when the device was seen within the past 30 days. If a device has been seen in the past 30 days, a more granular dataset showing all visits for that device within those 30 days is stored in the location tables
children	<p>(if relevant) This is a recursive list of all child area elements. Each item in this list contains the same information as listed in the rows above and will contain their own children arrays if the areas have child elements.</p> <p>A sample heterarchy looks like this: 1 Campus -> 2 Buildings -> 2 Floors each -> 2 Zones each will have children arrays of length 2 -> 2 -> 2 -> no children key/value pair at the respective levels.</p>

GET: Repeat Device Status In Any Area (Detailed)

Description

Returns detailed information of a repeat device within the last 6 months in any area using the MAC address of the device

HTTP Method

GET

Resource URI

/api/analytics/v1/repeatDeviceStats/{deviceMac}/{areaId}

Requires OAuth

N

Parameters

Table 19: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00

Content Type

application or json

Sample Response

```
{
  "results": [
    {
      "id": 4519,
      "lastMonthSeen": "October",
      "name": "System Campus",
      "userLevel": "Campus",
      "children": [
        {
          "id": 5206,
          "lastMonthSeen": "July",
          "name": "SJC-18",
          "userLevel": "Building",
          "children": [
            {
              "id": 5588,
              "lastMonthSeen": "July",
              "name": "3rd Floor",
              "userLevel": "Floor",
              "daysSeenInLast30": [
```



```
    ]
  }
],
"daysSeenInLast30": [
]
},
{
  "id": 5540,
  "lastMonthSeen": "October",
  "name": "SJC-23",
  "userLevel": "Building",
  "children": [
    {
      "id": 5498,
      "lastMonthSeen": "October",
      "name": "2nd floor",
      "userLevel": "Floor",
      "daysSeenInLast30": [

    ]
  },
  {
    "id": 5539,
    "lastMonthSeen": "July",
    "name": "3rd Floor",
    "userLevel": "Floor",
    "daysSeenInLast30": [

  ]
}
],
"daysSeenInLast30": [
]
},
{
  "id": 5635,
  "lastMonthSeen": "October",
  "name": "SJC-24",
  "userLevel": "Building",
  "children": [
    {
      "id": 5636,
      "lastMonthSeen": "October",
      "name": "1st Floor",
      "userLevel": "Floor",
      "daysSeenInLast30": [
        "2016-10-04",
        "2016-09-30",
        "2016-09-27",
        "2016-09-22"
      ]
    }
  ],
  {
    "id": 5637,
    "lastMonthSeen": "October",
    "name": "2nd Floor",
    "userLevel": "Floor",
    "daysSeenInLast30": [
      "2016-10-04",
      "2016-10-03",
      "2016-09-22"
    ]
  ]
}
```

```

    },
    {
      "id": 5638,
      "lastMonthSeen": "October",
      "name": "3rd Floor",
      "userLevel": "Floor",
      "daysSeenInLast30": [
        "2016-10-05",
        "2016-10-04",
        "2016-10-03",
        "2016-09-30",
        "2016-09-27",
        "2016-09-26",
        "2016-09-23",
        "2016-09-22"
      ]
    }
  ],
  "daysSeenInLast30": [
    "2016-10-05",
    "2016-10-04",
    "2016-10-03",
    "2016-09-30",
    "2016-09-27",
    "2016-09-26",
    "2016-09-23",
    "2016-09-22"
  ]
}
]
}
}

```

Table 20: Response Description

Variable	Description
lastMonthSeen	The name of the latest month the device was seen in a particular area, with the search going as far back as six months
name	The name of the area as seen in the heterarchy.
userLevel	The name of the heterarchy 'level' (i.e. Campus/Building/Floor/Zone)
daysSeenInLast30	List of dates when the device was seen within the past 30 days. If a device has been seen in the past 30 days, a more granular dataset showing all visits for that device within those 30 days is stored in the location tables

Variable	Description
children	<p>(if relevant) This is a recursive list of all child area elements. Each item in this list contains the same information as listed in the rows above and will contain their own children arrays if the areas have child elements.</p> <p>A sample heterarchy looks like this: 1 Campus -> 2 Buildings -> 2 Floors each -> 2 Zones each will have children arrays of length 2 -> 2 -> 2 -> no children key/value pair at the respective levels.</p>

GET: Repeat Device Status for One Area (Abridged)

Description

Returns abridged information of a repeat device within the last 6 months in a given area using the MAC address of the device.

HTTP Method

GET

Resource URI

/api/analytics/v1/repeatDeviceStatsLite/{deviceMac}/{areaId}

Requires OAuth

N

Parameters

Table 21: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00
areaId	Y	—	String	query	Global ID of heterarchy element. For example, 5540

Content Type

application or json

Sample Response

```
{
  "results": [
    {
      "id": 2654,
      "lastMonthSeen": "October",
      "name": "System Campus",
      "userLevel": "Campus",
      "daysSeenInLast30": [
        "2016-10-05",
        "2016-10-04",
        "2016-10-03",
        "2016-09-30",
        "2016-09-27",
        "2016-09-26",
        "2016-09-23",
        "2016-09-22"
      ]
    }
  ]
}
```

```
]
}
```

Table 22: Response Description

Variable	Description
lastMonthSeen	The name of the latest month the device was seen in a particular area, with the search going as far back as six months
name	The name of the area as seen in the heterarchy.
userLevel	The name of the heterarchy 'level' (i.e. Campus/Building/Floor/Zone)
daysSeenInLast30	List of dates when the device was seen within the past 30 days. If a device has been seen in the past 30 days, a more granular dataset showing all visits for that device within those 30 days is stored in the location tables

GET: Repeat Device Status In Any Area (Abridged)

Description

Returns abridged information of a repeat device within the last 6 months in any area using the MAC address of the device

HTTP Method

GET

Resource URI

/api/analytics/v1/repeatDeviceStats/{deviceMac}/{areaId}

Requires OAuth

N

Parameters

Table 23: Parameter Details

Name	Required	Default	Type	Location	Description
deviceMac	Y	—	String	query	MAC address of device. For example, 00:00:00:00:00:00

Content Type

application or json

Sample Response

```
{
  "results": [
    {
      "id": 4519,
      "lastMonthSeen": "October",
      "name": "System Campus",
      "userLevel": "Campus",
      "daysSeenInLast30": [
        "2016-10-05",
        "2016-10-04",
        "2016-10-03",
        "2016-09-30",
        "2016-09-27",
        "2016-09-26",
        "2016-09-23",
        "2016-09-22"
      ]
    }
  ]
}
```

Table 24: Response Description

Variable	Description
lastMonthSeen	The name of the latest month the device was seen in a particular area, with the search going as far back as six months
name	The name of the area as seen in the heterarchy.
userLevel	The name of the heterarchy 'level' (i.e. Campus/Building/Floor/Zone)
daysSeenInLast30	List of dates when the device was seen within the past 30 days. If a device has been seen in the past 30 days, a more granular dataset showing all visits for that device within those 30 days is stored in the location tables

GET: Retrieve the count of active clients on a floor or multiple floors right now.

Description

The only parameter (body) is a JSON array containing the parameters.

HTTP Method

GET

Resource URI

/api/analytics/v1/now/clientCount

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
{
  "total": {
    "total": 103,
    "totalNumFloors": 8
  },
  "connectionState": "all",
  "failedFloorIds": [],
  "missingFloorIds": [],
  "executionTime": 147,
  "minValue": 0,
  "data": [
    {
      "floorName": "2nd floor (CCW remodel)",
      "floorId": 207,
      "value": 0
    },
    {
      "floorName": "3rd floor (CCW remodel)",
      "floorId": 157,
      "value": 0
    },
    {
      "floorName": "3rd floor (CCW remodel)",
      "floorId": 232,
      "value": 0
    }
  ]
}
```



```

    {
      "floorName": "1st floor (CCW remodel)",
      "floorId": 106,
      "value": 0
    },
    {
      "floorName": "1st floor (CCW remodel)",
      "floorId": 184,
      "value": 0
    },
    {
      "floorName": "1st Floor",
      "floorId": 11,
      "value": 103
    },
    {
      "floorName": "2nd floor (CCW remodel)",
      "floorId": 132,
      "value": 0
    },
    {
      "floorName": "2nd floor (Area Addition)",
      "floorId": 185,
      "value": 0
    }
  ],
  "date": "2017-12-17",
  "nonFloorIds": [],
  "maxValue": 103
}

```

API History

Table 25: API history

Release	Modification
Cisco CMX Release 10.3	This API is introduced.

POST: Retrieve the count of active clients on a floor or multiple floors right now

Description

This API retrieves the count of active clients on a floor or multiple floors right now. The only parameter (body) is a JSON array containing the parameters.

Parameters

Table 26: Parameter Details

JSON array parameter	Description	Allowable values/formats
floors	The list of floors of interest. If none are given, all are considered.	A comma-separated list of floor ids. <floorId1>,<floorId2>,...
connectionState	Whether to restrict to either connected or detected devices (default = all)	<ul style="list-style-type: none"> • connected • detected • all

HTTP Method

POST

Resource URI

/api/analytics/v1/now/clientCount

Requires Basic Auth

N

Parameters

Table 27: Parameter Details

Name	Required	Default	Type	Location	Description
body	Y	—	JSON array	body	JSON array containing parameters.

Content Type

application/json

Sample Input

```
{
  "floors": "17",
  "connectionState": "all"
}
```

Sample Output

```
{
  "total": {
    "total": 0,
    "totalNumFloors": 0
  },
  "connectionState": "all",
  "failedFloorIds": [],
  "missingFloorIds": [
    "17"
  ],
  "executionTime": 1,
  "minValue": 2147483647,
  "data": [],
  "date": "2017-03-16",
  "nonFloorIds": [],
  "maxValue": -2147483648
}
```

API History

Table 28: API history

Release	Modification
Cisco CMX Release 10.3	This API is introduced.

POST: Retrieve the breakdown of connected and detected devices for a floor right now.

Description

This API retrieve the breakdown of connected and detected devices for a floor right now.

HTTP Method

POST

Resource URI

/api/analytics/v1/now/connectedDetected

Requires Basic Auth

N

Parameters

Table 29: Parameter Details

Name	Required	Default	Type	Location	Description
body	Y		JSON array	body	JSON array containing parameters

Content Type

application/json

Sample Input (JSON)

```
{
  "floors": "17"
}
```

Sample Output (JSON)

```
{
  "total": {
    "totalDetected": 0,
    "totalNumFloors": 0,
    "totalAll": 0,
    "totalConnected": 0
  },
  "startTime": "03:22",
  "startDate": "2017-03-16",
  "failedFloorIds": [],
  "missingFloorIds": [
    "17"
  ]
}
```

```
],  
  "results": [],  
  "interval": null,  
  "executionTime": 2,  
  "endDate": "2017-03-16",  
  "endTime": "03:22",  
  "nonFloorIds": []  
}
```

API History

Table 30: API history

Release	Modification
Cisco CMX Release 10.3	This API is introduced.

GET: Retrieve the breakdown of connected and detected devices for a floor right now

Description

The API retrieves the breakdown of connected and detected devices for a floor right now.

HTTP Method

GET

Resource URI

/api/analytics/v1/now/connectedDetected

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

Sample Output (JSON)

```
{
  "total": {
    "totalDetected": 98,
    "totalNumAreas": 1,
    "totalAll": 98,
    "totalConnected": 0
  },
  "startDate": "2017-12-17",
  "interval": null,
  "executionTime": 158,
  "endDate": "2017-12-17",
  "endTime": "22:36",
  "startTime": "22:36",
  "invalidLevelIds": [],
  "missingAreaIds": [],
  "results": [
    {
      "ancestry": [],
      "id": 1,
      "series": [
        "dwell"
      ],
      "hasChildren": true,
      "area": "Campus",
      "data": [
        {
```

```
        "dwell": "0-1440",
        "values": {
          "connected": 0,
          "detected": 98,
          "all": 98
        },
        "name": null
      }
    ]
  },
  "failedAreaIds": [],
  "maxValues": {
    "connected": 0,
    "detected": 98
  },
  "minValues": {
    "connected": 0,
    "detected": 98
  }
}
```

API History

Table 31: API history

Release	Modification
Cisco CMX Release 10.3	This API is introduced.

■ GET: Retrieve the breakdown of connected and detected devices for a floor right now



Configuration



Connect

- [Operations to query visitor user session data, on page 68](#)

Operations to query visitor user session data

GET: Query User Sessions

Description

Query user session data based on the filter criteria. The results are sorted by last login time in descending order. The search can be performed on MAC addresses, last session time, status, and any or all fields. The query is paged using index and count parameters with maximum size in 1000. The returned JSON object includes the number of records returned and next index to query if more. You can also download the queried result in CSV file with URL `/api/connect/v1/clients/export`. The export query does not have maximum size limit.

HTTP Method

GET

Resource URI

`/api/connect/v1/clients`

Requires OAuth

N

Parameters

Table 32: Parameter Details

Name	Required	Default	Type	Location	Description
start	N	—	String	query	Session start time based on last login time in UTC epoch format. Use the Epoch Converter. https://www.epochconverter.com/
end	N	—	String	query	Session end time based on last login time in UTC epoch format. Use the Epoch Converter. https://www.epochconverter.com/
index	N	—	String	query	Starting index of the query based on 0.
count	N	—	String	query	Number of records to query with the limit of 1000 at maximum.
status	N	—	String	query	Status of the users. Allowed: all,active.

Name	Required	Default	Type	Location	Description
authtype	N	—	String	query	Authentication type used by the user. Allowed values/formats:registration, SMS, social.
mac	N	—	String	query	MAC address in 00:11:22:33:44:55:66 format. If MAC address is used, all other parameters will be ignored.
device	N	—	String	query	Type of user's device.
os	N	—	String	query	Operating system of user's device.
language	N	—	String	query	Language served to the user. It can search by full language name or two-letter language code.
all	N	—	String	query	The search applies to all fields.

Content Type

application/json

Sample Input (JSON)

10.122.141.178/api/connect/v1/clients?start=1534108572&end=2534108572

Sample Output (JSON)

```
{
  "nextIndex": 0,
  "timeZoneOffset": -14400000,
  "queryRecordCount": 1000,
  "timeZone": "Eastern Standard Time",
  "records": [],
  "returnRecordCount": 0
}
```




Location



Presence

- [Connected Visitors API](#), on page 74
- [Repeat Visitors API](#), on page 89
- [Dwell API](#), on page 102
- [Visitors API](#), on page 123
- [Summary API](#), on page 139
- [Clients API](#), on page 148
- [Passersby API](#), on page 159

Connected Visitors API

GET: Count of Connected Visitors for a Date

Description

This API returns the count of connected visitors seen on a given day.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count?siteId=<Site ID>&date=<date in yyyy-mm-dd>

Requires Basic Auth

N

Parameters

Table 33: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date in yyyy-mm-dd format

Content Type

application/json

Sample Output

3

GET: Count of Connected Visitors Seen today Until Now

Description

This API returns the count of connected visitors seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count/today

Requires OAuth

N

Parameters*Table 34: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count/today?siteId=<Site ID>

Sample Output

Number

GET: Count of Connected Visitors Seen Yesterday

Description

This API returns the count of connected visitors seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count/yesterday

Requires OAuth

N

Parameters*Table 35: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count/yesterday?siteId=<Site ID>

Sample Output

Number

GET: Average Count of Connected Visitors Seen in Last 3 Days

Description

This API returns the average count of connected visitors seen in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count/3days

Requires OAuth

N

Parameters*Table 36: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count/3days?siteId=<Site ID>

Sample Output

Number

GET: Average Count of Connected Visitors Seen in Last 7 Days

Description

This API returns the average count of connected visitors seen in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count/lastweek

Requires OAuth

N

Parameters*Table 37: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count/lastweek?siteId=<Site ID>>

Sample Output

Number

GET: Average Count of Connected Visitors seen in last 30 Days

Description

This API returns the average count of connected visitors seen in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/count/lastmonth

Requires OAuth

N

Parameters

Table 38: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/count/lastmonth?siteId=<Site ID>

Sample Output

Number

GET: Sum of Connected Visitor Counts in Last 3 days

Description

This API returns the the sum of connected visitor counts for each day in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/total/3days

Requires Basic Auth

N

Parameters

Table 39: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/total/3days?siteId=<Site ID>

Sample Output

Number

GET: Sum of Connected Visitor Counts in Last 7 days

Description

This API returns the the sum of connected visitor counts for each day in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/total/lastweek

Requires OAuth

N

Parameters*Table 40: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/total/lastweek?siteId=<Site ID>

Sample Output

Number

GET: Sum of Connected Visitor Counts in Last 30 days

Description

This API returns the the sum of connected visitor counts for each day in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/total/lastmonth

Requires OAuth

N

Parameters*Table 41: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/total/lastmonth?siteId=<Site ID>

Sample Output

Number

GET: Sum of Connected Visitor Counts in the Specified Date Range

Description

This API returns the sum of connected visitor counts for each day in the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/total

Requires OAuth

N

Parameters*Table 42: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/total/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>

Sample Output

Number

GET: Hourly Count of Connected Visitors Today

Description

This API returns the hourly count of connected visitors today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/hourly/today

Requires OAuth

N

Parameters*Table 43: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines <https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/hourly/today/?siteId=<Site ID>>

Sample Output

```
{
  "0":0,
  "1":0,
  "2":0,
  "3":0,
  "4":0,
  "5":0,
  "6":0,
  "7":0,
  "8":0,
  "9":0
}
```

GET: Hourly Count of Connected Visitors Yesterday

Description

This API returns the hourly count of connected visitors yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/hourly/yesterday

Requires OAuth

N

Parameters

Table 44: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines <https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/hourly/yesterday/?siteId=<Site ID>>

Sample Output

```
{
  "0":0,
  "1":0,
  "2":0,
}
```

```

    "3":0,
    "4":0,
    "5":0,
    "6":0,
    "7":0,
    "8":0,
    "9":0
  }

```

GET: Hourly Count of Connected Visitors in Last 3 Days

Description

This API returns the hourly count of connected visitors in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/hourly/3days

Requires OAuth

N

Parameters

Table 45: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id

Content Type

application/json

GET: Hourly Count of Connected Visitors for the Specified Day

Description

This API returns the hourly count of connected visitors for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/hourly

Requires OAuth

N

Parameters*Table 46: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id
date	N	—	String	query	Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/hourly/?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

```
{
  "0": 0,
  "1": 0,
  "2": 0,
  "3": 0,
  "4": 0,
  "5": 0,
  "6": 0,
  "7": 0,
  "8": 0,
  "9": 0
}
```

GET: Daily Count of Connected Visitors for the Specified Date Range

Description

This API returns the daily count of connected visitors for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/daily

Requires OAuth

N

Parameters*Table 47: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

`https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/daily/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>`

Sample Output

```
{
  "2017-03-01":0,
  "2017-03-02":0,
  "2017-03-03":0,
  "2017-03-04":0,
  "2017-03-05":0,
  "2017-03-06":0,
  "2017-03-07":0,
  "2017-03-08":0,
  "2017-03-09":0,
  "2017-03-10":0
}
```

GET: Daily Count of Connected Visitors for Last 7 days

Description

This API returns the daily count of connected visitors for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/daily/lastweek

Requires OAuth

N

Parameters*Table 48: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Connected Visitors for last 30 Days

Description

This API returns the daily count of connected visitors for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/daily/lastmonth

Requires OAuth

N

Parameters*Table 49: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Connected Visitors by Hour for the Specified Date Range

Description

This API returns the daily count of connected visitors by hour category for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/connected/daily/hourcategory

Requires OAuth

N

Parameters

Table 50: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/daily/hourcategory/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>

Sample Output

```
{
  "2017-03-01": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-02": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-03": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-04": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-05": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-06": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  }
}
```

```
    },
    "2017-03-07":{
      "business_hours":null,
      "evening_hours":null,
      "morning_hours":null
    },
    "2017-03-08":{
      "business_hours":null,
      "evening_hours":null,
      "morning_hours":null
    },
    "2017-03-09":{
      "business_hours":null,
      "evening_hours":null,
      "morning_hours":null
    },
    "2017-03-10":{
      "business_hours":null,
      "evening_hours":null,
      "morning_hours":null
    }
  }
}
```


Repeat Visitors API

GET: Average Count of Repeat Visitors for Last 7 Days

Description

This API returns the average count of repeat visitors seen in last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/average/lastweek

Requires OAuth

N

Parameters

Table 51: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Count of Repeat Visitors for Last 30 days

Description

This API returns the average count of repeat visitors seen in last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/average/lastmonth

Requires OAuth

N

Parameters*Table 52: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Sum of Repeat Visitor Counts for Last 3 days

Description

This API returns the sum of repeat visitor counts for each day in last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count/3days

Requires OAuth

N

Parameters*Table 53: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Sum of Repeat Visitor Counts for Last 7 days

Description

This API returns the sum of repeat visitor counts for each day in last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count/lastweek

Requires OAuth

N

Parameters

Table 54: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Sum of Repeat Visitor Counts for Last 30 days

Description

This API returns the sum of repeat visitor counts for each day in last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count/lastmonth

Requires OAuth

N

Parameters

Table 55: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Repeat Visitors for a Day

Description

This API returns the hourly count of repeat visitors for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/hourly

Requires OAuth

N

Parameters

Table 56: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Hourly Count of Repeat Visitors Today

Description

This API returns the hourly count of repeat visitors seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/hourly/today

Requires OAuth

N

Parameters*Table 57: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Repeat Visitors Yesterday

Description

This API returns the hourly count of repeat visitors seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/hourly/yesterday

Requires OAuth

N

Parameters*Table 58: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Repeat Visitors for a Date or Date Range

Description

This API returns the count of repeat visitors seen on a given day or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count

Requires OAuth

N

Parameters

Table 59: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/repeatvisitors/count/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>

Sample Output

```
{
  "DAILY": 0,
  "WEEKLY": 0,
  "OCCASIONAL": 0,
  "FIRST_TIME": 0,
  "YESTERDAY": 0
}
```

GET: Count of Repeat Visitors for Today

Description

This API returns the count of repeat visitors seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count/today

Requires OAuth

N

Parameters*Table 60: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Repeat Visitors for Yesterday

Description

This API returns the count of repeat visitors seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/count/yesterday

Requires OAuth

N

Parameters*Table 61: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Count of Repeat Visitors for Last 3 days

Description

This API returns the average count of repeat visitors seen in last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/average/3days

Requires OAuth

N

Parameters*Table 62: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Count of Repeat Visitors for Specified Date Range

Description

This API returns the average count of repeat visitors seen for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/average

Requires OAuth

N

Parameters*Table 63: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/repeatvisitors/average/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>

Sample Output

```
{
  "DAILY":0,
  "WEEKLY":0,
  "OCCASIONAL":0,
  "FIRST_TIME":0,
  "YESTERDAY":0
}
```

GET: Hourly Count of Repeat Visitors for Last 3 Days

Description

This API returns the hourly count of repeat visitors for the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/hourly/3days

Requires OAuth

N

Parameters*Table 64: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Repeat Visitor Summary for a Day

Description

This API returns the repeat visitor summary for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/daysummary

Requires OAuth

N

Parameters*Table 65: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Repeat Visitor Summary for a Week

Description

This API returns the repeat visitor summary for the week of specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/weeksummary

Requires OAuth

N

Parameters*Table 66: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Repeat Visitor Summary for a Month

Description

This API returns the repeat visitor summary for the month of specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/monthsummary

Requires OAuth

N

Parameters*Table 67: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Daily Count of Repeat Visitors for Specified Date Range

Description

This API returns the daily count of repeat visitors for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/daily

Requires OAuth

N

Parameters*Table 68: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

`https://<tenant-id>.cmxcisco.com/api/presence/v1/repeatvisitors/daily/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>`

Sample Output

```
{
  "2017-03-01": null,
  "2017-03-02": null,
  "2017-03-03": null,
  "2017-03-04": null,
  "2017-03-05": null,
  "2017-03-06": null,
  "2017-03-07": null,
  "2017-03-08": null,
  "2017-03-09": null,
  "2017-03-10": {
    "DAILY": 0,
    "WEEKLY": 0,
    "OCCASIONAL": 0,
    "FIRST_TIME": 0,
    "YESTERDAY": 0
  }
}
```

GET: Daily Count of Repeat Visitors for Last 7 Days

Description

This API returns the daily count of repeat visitors for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/daily/lastweek

Requires OAuth

N

Parameters

Table 69: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Repeat Visitors for Last 30 days

Description

This API returns the daily count of repeat visitors for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/repeatvisitors/daily/lastmonth

Requires OAuth

N

Parameters

Table 70: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Dwell API

GET: Count of Visitors by Dwell Level for a Date or Date Range

Description

This API returns the count of visitors categorized by dwell level seen on a given day or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count

Requires OAuth

N

Parameters

Table 71: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date
startDate	Y	—	String	query	Start Date
endDate	N	—	String	query	End Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/dwell/count/?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

```
{
  "FIVE_TO_THIRTY_MINUTES":0,
  "THIRTY_TO_SIXTY_MINUTES":0,
  "ONE_TO_FIVE_HOURS":0,
  "FIVE_TO_EIGHT_HOURS":0,
  "EIGHT_PLUS_HOURS":0
}
```

GET: Count of Visitors by Dwell Level for Today

Description

This API returns the count of visitors categorized by dwell level seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count/today

Requires OAuth

N

Parameters

Table 72: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors by Dwell Level for Yesterday

Description

This API returns the count of visitors categorized by dwell level seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count/yesterday

Requires OAuth

N

Parameters*Table 73: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors by Dwell Level for Last 3 Days

Description

This API returns the count of visitors categorized by dwell level seen in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count/3days

Requires OAuth

N

Parameters*Table 74: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors by Dwell Level for Last 7 Days

Description

This API returns the count of visitors categorized by dwell level seen in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count/lastweek

Requires OAuth

N

Parameters

Table 75: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors by Dwell Level for Last 30 Days

Description

This API returns the count of visitors categorized by dwell level seen in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/count/lastmonth

Requires OAuth

N

Parameters

Table 76: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Count of Visitors by Dwell Level for Last 7 Days

Description

This API returns the average count of visitors categorized by dwell level seen in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagecount/lastweek

Requires OAuth

N

Parameters

Table 77: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Count of Visitors by Dwell Level for Last 30 Days

Description

This API returns the average count of visitors categorized by dwell level seen in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagecount/lastmonth

Requires OAuth

N

Parameters*Table 78: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Visitors by Dwell Level for a Specific Day

Description

This API returns the hourly count of visitors categorized by dwell level seen in the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/hourly

Requires OAuth

N

Parameters*Table 79: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Hourly Count of Visitors by Dwell Level for Today

Description

This API returns the hourly count of visitors categorized by dwell level seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/hourly/today

Requires OAuth

N

Parameters*Table 80: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time by Dwell Level for Last 7 Days

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel/lastweek

Requires OAuth

N

Parameters*Table 81: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time by Dwell Level for Last 30 Days

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel/lastmonth

Requires OAuth

N

Parameters*Table 82: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Average Visitor Dwell Time by Dwell Level for a Specific Date Range

Description

This API returns the daily average visitor dwell time in minutes categorized by dwell level for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/dailyaverage

Requires OAuth

N

Parameters*Table 83: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

`https://<tenant-id>.cmxcisco.com/api/presence/v1/dwell/dailyaverage/?siteId=<Site ID>&date=<date in yyyy-mm-dd>`

Sample Output

```
{
  "2017-03-01":null,
  "2017-03-02":null,
  "2017-03-03":null,
  "2017-03-04":null,
  "2017-03-05":null,
  "2017-03-06":null,
  "2017-03-07":null,
  "2017-03-08":null,
  "2017-03-09":null,
  "2017-03-10":{
    "FIVE_TO_THIRTY_MINUTES":0.0,
    "THIRTY_TO_SIXTY_MINUTES":0.0,
    "ONE_TO_FIVE_HOURS":0.0,
    "FIVE_TO_EIGHT_HOURS":0.0,
    "EIGHT_PLUS_HOURS":0.0
  }
}
```

GET: Daily Average Visitor Dwell Time by Dwell Level for Last 7 Days

Description

This API returns the daily average visitor dwell time in minutes categorized by dwell level for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/dailyaverage/lastweek

Requires OAuth

N

Parameters*Table 84: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Average Visitor Dwell Time by Dwell Level for Last 30 Days

Description

This API returns the daily average visitor dwell time in minutes categorized by dwell level for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/dailyaverage/lastmonth

Requires OAuth

N

Parameters*Table 85: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Visitors by Dwell level for Yesterday

Description

This API returns the hourly count of visitors categorized by dwell level seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/hourly/yesterday

Requires OAuth

N

Parameters

Table 86: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id

Content Type

application/json

GET: Hourly Count of Visitors by Dwell Level for Last 3 Days

Description

This API returns the hourly count of visitors categorized by dwell level seen in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/hourly/3days

Requires OAuth

N

Parameters*Table 87: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Visitors by Dwell Level for a Specific Date Range

Description

This API returns the daily count of visitors categorized by dwell level seen during the specified date range

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/daily

Requires OAuth

N

Parameters*Table 88: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/dwell/daily/?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

```

{
  "2017-03-01":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-02":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-03":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-04":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-05":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-06":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-07":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-08":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
    "EIGHT_PLUS_HOURS":0
  },
  "2017-03-09":{
    "FIVE_TO_THIRTY_MINUTES":0,
    "THIRTY_TO_SIXTY_MINUTES":0,
    "ONE_TO_FIVE_HOURS":0,
    "FIVE_TO_EIGHT_HOURS":0,
  }
}

```

```

      "EIGHT_PLUS_HOURS":0
    },
    "2017-03-10":{
      "FIVE_TO_THIRTY_MINUTES":0,
      "THIRTY_TO_SIXTY_MINUTES":0,
      "ONE_TO_FIVE_HOURS":0,
      "FIVE_TO_EIGHT_HOURS":0,
      "EIGHT_PLUS_HOURS":0
    }
  }
}

```

GET: Daily Count of Visitors by Dwell Level for Last 7 Days

Description

This API returns the daily count of visitors categorized by dwell level seen during the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/daily/lastweek

Requires OAuth

N

Parameters

Table 89: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Visitors by Dwell Level for Last 30 Days

Description

This API returns the daily count of visitors categorized by dwell level seen during the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/daily/lastmonth

Requires OAuth

N

Parameters*Table 90: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time for the Specific Date or Date Range

Description

This API returns the average visitor dwell time in minutes for the specified date or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average

Requires OAuth

N

Parameters*Table 91: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date
date	N	—	String	query	Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/dwell/average/?siteId=<Site ID>&date=<date in yyyy-mm-dd>

Sample Output

0.0

GET: Average Visitor Dwell Time for Today

Description

This API returns the average visitor dwell time in minutes for today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average/today

Requires OAuth

N

Parameters*Table 92: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time for Yesterday

Description

This API returns the average visitor dwell time in minutes for yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average/yesterday

Requires OAuth

N

Parameters

Table 93: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time for Last 3 Days

Description

This API returns the average visitor dwell time in minutes for last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average/3days

Requires OAuth

N

Parameters

Table 94: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time for Last 7 Days

Description

This API returns the average visitor dwell time in minutes for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average/lastweek

Requires OAuth

N

Parameters

Table 95: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time for Last 30 Days

Description

This API returns the average visitor dwell time in minutes for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/average/lastmonth

Requires OAuth

N

Parameters*Table 96: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time by Dwell Level for a Specific Date or Date Range

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for the specified date or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel

Requires OAuth

N

Parameters*Table 97: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date
startDate	Y	—	String	query	Start Date
endDate	N	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/dwell/averagebylevel/?siteId=<Site ID>&date=<date in yyyy-mm-dd>

Sample Output

```
{
  "FIVE_TO_THIRTY_MINUTES":0.0,
  "THIRTY_TO_SIXTY_MINUTES":0.0,
  "ONE_TO_FIVE_HOURS":0.0,
  "FIVE_TO_EIGHT_HOURS":0.0,
  "EIGHT_PLUS_HOURS":0.0
}
```

GET: Average Visitor Dwell Time by Dwell Level for Today

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel/today

Requires OAuth

N

Parameters

Table 98: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time by Dwell Level for Yesterday

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel/yesterday

Requires OAuth

N

Parameters

Table 99: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Average Visitor Dwell Time by Dwell Level for Last 3 days

Description

This API returns the average visitor dwell time in minutes categorized by dwell level for last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/dwell/averagebylevel/3days

Requires OAuth

N

Parameters

Table 100: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Visitors API

GET: Peak Hour of Visitors Today

Description

This API returns the hour that had peak visitors today.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/today/peakhour

Requires OAuth

N

Parameters

Table 101: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors Today

Description

This API returns the count of visitors seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count/today

Requires OAuth

N

Parameters*Table 102: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Visitors Yesterday

Description

This API returns the count of visitors seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count/yesterday

Requires OAuth

N

Parameters*Table 103: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Unique Visitors for Last 3 Days

Description

This API returns the count of unique visitors seen in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count/3days

Requires OAuth

N

Parameters*Table 104: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Unique Visitors for Last Week

Description

This API returns the count of unique visitors seen in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count/lastweek

Requires OAuth

N

Parameters*Table 105: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Unique Visitors for Last Month

Description

This API returns the count of unique visitors seen in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count/lastmonth

Requires OAuth

N

Parameters

Table 106: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Count of Unique Visitors for a Date/Date Range

Description

This API returns the count of unique visitors seen on a day or range of dates.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/count

Requires OAuth

N

Parameters*Table 107: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date
date	N	—	String	query	Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/visitor/count/?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

107

GET: Sum of Visitor Counts for a Date Range

Description

This API returns the sum of visitor counts for each day in the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/total

Requires OAuth

N

Parameters*Table 108: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start date

Name	Required	Default	Type	Location	Description
endDate	Y	—	String	query	End date

Content Type

application/json

GET: Sum of Visitor Counts for the Last 3 Days

Description

This API returns the sum of visitor counts for each day in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/total/3days

Requires OAuth

N

Parameters*Table 109: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Sum of Visitor Counts for the Last Week

Description

This API returns the sum of visitor counts for each day in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/total/lastweek

Requires OAuth

N

Parameters*Table 110: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Sum of Visitor Counts for the Last Month

Description

This API returns the sum of visitor counts for each day in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/total/lastmonth

Requires OAuth

N

Parameters*Table 111: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Visitors Today

Description

This API returns the hourly count of visitors today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/hourly/today

Requires OAuth

N

Parameters

Table 112: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Hourly Count of Visitors Yesterday

Description

This API returns the hourly count of visitors yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/hourly/yesterday

Requires OAuth

N

Parameters*Table 113: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id

Content Type

application/json

GET: Hourly Count of Visitors for Last 3 Days

Description

This API returns the hourly count of visitors for the last 3 days including today.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/hourly/3days

Requires OAuth

N

Parameters*Table 114: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id

Content Type

application/json

GET: Hourly Count of Visitors for a Day

Description

This API returns the hourly count of visitors for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/hourly

Requires OAuth

N

Parameters

Table 115: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id
date	Y	—	String	query	Date

Content Type

application/json

GET: Daily Count of Visitors for a Date Range

Description

This API returns the daily count of unique visitors for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/daily

Requires OAuth

N

Parameters

Table 116: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site Id
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/connected/hourly/?siteId=<Site ID>&date=<date in yyyy-mm-dd>

Sample Output

```
{
  "0":0,
  "1":0,
  "2":0,
  "3":0,
  "4":0,
  "5":0,
  "6":0,
  "7":0,
  "8":0,
  "9":0
}
```

GET: Daily Count of Visitors for Last Week

Description

This API returns the daily count of visitors for the last 7 days including today.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/daily/lastweek

Requires OAuth

N

Parameters*Table 117: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Visitors for Last Month

Description

This API returns the daily count of visitors for the last 30 days including today.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/daily/lastmonth

Requires OAuth

N

Parameters

Table 118: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Daily Count of Visitors by Hour Category for a Date Range

Description

This API returns the daily count of visitors seen during morning, business, evening hours for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/daily/hourcategory

Requires OAuth

N

Parameters

Table 119: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/visitor/daily/hourcategory/?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

```
{
  "2017-03-01": {
    "business_hours": 0,
    "evening_hours": 0,
    "morning_hours": 0
  },
  "2017-03-02": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-03": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-04": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-05": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-06": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-07": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  },
  "2017-03-08": {
    "business_hours": null,
    "evening_hours": null,
    "morning_hours": null
  }
}
```

```

    "morning_hours":null
  },
  "2017-03-09":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-03-10":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  }
}

```

GET: Visitor Summary for a Day

Description

This API returns a summary of visitor traffic for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/daysummary

Requires OAuth

N

Parameters

Table 120: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Visitor Summary for Week

Description

This API returns a summary of visitor traffic for the week of the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/weeksummary

Requires OAuth

N

Parameters*Table 121: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

GET: Visitor Summary for Month

Description

This API returns a summary of visitor traffic for the month of the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/visitor/monthsummary

Requires OAuth

N

Parameters*Table 122: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date

Content Type

application/json

Summary API

GET: Site KPI Summary for Specified Date or Date Range

Description

This API returns the KPI summary for the given site and specified date or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary

Requires OAuth

N

Parameters

Table 123: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	N	—	String	query	Date
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

`https://<tenant-id>.cmxcisco.com/api/presence/v1/kpisummary?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>`

Sample Output

```
{
  "visitorCount":107,
  "totalPasserbyCount":0,
  "totalVisitorCount":100,
  "totalConnectedCount":0,
  "connectedPercentage":0,
  "conversionRate":100,
  "averageDwell":0.0,
  "averageDwellByLevels":{
```

```

    "FIVE_TO_THIRTY_MINUTES":{
      "average":0.0,
      "count":0
    },
    "THIRTY_TO_SIXTY_MINUTES":{
      "average":0.0,
      "count":0
    },
    "ONE_TO_FIVE_HOURS":{
      "average":0.0,
      "count":0
    },
    "FIVE_TO_EIGHT_HOURS":{
      "average":0.0,
      "count":0
    },
    "EIGHT_PLUS_HOURS":{
      "average":0.0,
      "count":0
    }
  },
  "topManufacturers":null,
  "peakSummary":null,
  "peakWeekSummary":{
    "peakHour":15,
    "peakDate":"2017-02-28",
    "peakWeek":0,
    "interval":"WEEK",
    "peakHourCount":49,
    "averageHourlyCount":25.01388888888889,
    "hourlyCounts":{
      "0":13,
      "1":13,
      "2":12,
      "3":11,
      "4":12,
      "5":13,
      "6":13,
      "7":15,
      "8":14,
      "9":15,
      "10":21,
      "11":26,
      "12":29,
      "13":31,
      "14":38,
      "15":44,
      "16":46,
      "17":41,
      "18":44,
      "19":38,
      "20":32,
      "21":28,
      "22":25,
      "23":25
    },
    "maxHour":15,
    "maxDay":1,
    "peakDayCount":112,
    "peakHourDay":"2017-02-27"
  },
  "peakMonthSummary":{
    "peakHour":16,
    "peakDate":"2017-03-01",

```

```
"peakWeek":9,
"interval":"MONTH",
"peakHourCount":45,
"averageHourlyCount":25.5,
"hourlyCounts":{
  "0":20,
  "1":18,
  "2":14,
  "3":13,
  "4":14,
  "5":17,
  "6":18,
  "7":18,
  "8":19,
  "9":15,
  "10":23,
  "11":22,
  "12":31,
  "13":28,
  "14":37,
  "15":41,
  "16":45,
  "17":43,
  "18":42,
  "19":33,
  "20":29,
  "21":28,
  "22":26,
  "23":18
},
"maxHour":16,
"maxDay":3,
"peakDayCount":100,
"peakHourDay":"2017-03-01"
}
```

GET: Site KPI Summary for Today

Description

This API returns the KPI summary for the given site today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary/today

Requires OAuth

N

Parameters*Table 124: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Site KPI Summary for Yesterday

Description

This API returns the KPI summary for the given site yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary/yesterday

Requires OAuth

N

Parameters*Table 125: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Site KPI Summary for Last 3 Days

Description

This API returns the KPI summary for the given site for the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary/3days

Requires OAuth

N

Parameters*Table 126: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Site KPI Summary for last 7 days

Description

This API returns the KPI summary for the given site for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary/lastweek

Requires OAuth

N

Parameters*Table 127: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Site KPI Summary for Last 30 Days

Description

This API returns the KPI summary for the given site for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/kpisummary/lastmonth

Requires OAuth

N

Parameters

Table 128: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

GET: Site Insights for Specified Date or Date Range

Description

This API returns the insights for the given site and specified date or date range.

HTTP Method

GET

Resource URI

/api/presence/v1/insights

Requires OAuth

N

Parameters

Table 129: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	N	—	String	query	Date
startDate	Y	—	String	query	Start Date
endDate	Y	—	String	query	End Date

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/insights/?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>>

Sample Output

```
{
  "weekStatus":null,
  "monthStatus":null,
  "yesterdayStatus":null,
  "weekStats":{
    "peakDay":"2017-02-28",
    "busiestHour":0,
    "peakCount":112,
    "busiestDay":0,
    "hourlyAverage":25.0138888888889,
    "peakHour":15,
    "peakHourCount":49,
    "peakHourDay":"2017-02-27",
    "busiestWeekDate":"2017-03-01",
    "busiestMonthDate":null
  },
  "monthStats":{
    "peakDay":"2017-03-01",
    "busiestHour":16,
    "peakCount":100,
    "busiestDay":3,
    "hourlyAverage":25.5,
    "peakHour":16,
    "peakHourCount":45,
    "peakHourDay":"2017-03-01",
    "busiestWeekDate":null,
    "busiestMonthDate":"2017-03-01"
  },
  "weekRepeatVisitorStats":{
    "DAILY":{
      "peakDay":"2017-03-01",
      "busiestHour":0,
      "peakCount":60,
      "busiestDay":-1,
      "hourlyAverage":14.6111111111111,
      "peakHour":18,
      "peakHourCount":34,
    }
  }
}
```

```

        "peakHourDay":null,
        "busiestWeekDate":null,
        "busiestMonthDate":null
    },
    "WEEKLY":{
        "peakDay":"2017-02-27",
        "busiestHour":16,
        "peakCount":27,
        "busiestDay":-1,
        "hourlyAverage":5.375,
        "peakHour":16,
        "peakHourCount":19,
        "peakHourDay":null,
        "busiestWeekDate":null,
        "busiestMonthDate":null
    },
    "OCCASIONAL":{
        "peakDay":"2017-02-28",
        "busiestHour":0,
        "peakCount":20,
        "busiestDay":-1,
        "hourlyAverage":2.444444444444444,
        "peakHour":19,
        "peakHourCount":6,
        "peakHourDay":null,
        "busiestWeekDate":null,
        "busiestMonthDate":null
    },
    "FIRST_TIME":{
        "peakDay":"2017-02-27",
        "busiestHour":0,
        "peakCount":24,
        "busiestDay":-1,
        "hourlyAverage":1.888888888888889,
        "peakHour":15,
        "peakHourCount":6,
        "peakHourDay":null,
        "busiestWeekDate":null,
        "busiestMonthDate":null
    },
    "YESTERDAY":{
        "peakDay":null,
        "busiestHour":0,
        "peakCount":0,
        "busiestDay":0,
        "hourlyAverage":0.0,
        "peakHour":0,
        "peakHourCount":0,
        "peakHourDay":null,
        "busiestWeekDate":null,
        "busiestMonthDate":null
    }
},
"monthRepeatVisitorStats":{
    "DAILY":{
        "peakDay":"2017-03-01",
        "busiestHour":18,
        "peakCount":60,
        "busiestDay":-1,
        "hourlyAverage":18.41666666666667,
        "peakHour":18,
        "peakHourCount":34,
        "peakHourDay":null,
        "busiestWeekDate":null,
    }
}

```

```
    "busiestMonthDate":null
  },
  "WEEKLY":{
    "peakDay":"2017-03-01",
    "busiestHour":22,
    "peakCount":18,
    "busiestDay":-1,
    "hourlyAverage":3.75,
    "peakHour":22,
    "peakHourCount":6,
    "peakHourDay":null,
    "busiestWeekDate":null,
    "busiestMonthDate":null
  },
  "OCCASIONAL":{
    "peakDay":"2017-03-01",
    "busiestHour":7,
    "peakCount":8,
    "busiestDay":-1,
    "hourlyAverage":1.8333333333333333,
    "peakHour":7,
    "peakHourCount":4,
    "peakHourDay":null,
    "busiestWeekDate":null,
    "busiestMonthDate":null
  },
  "FIRST_TIME":{
    "peakDay":"2017-03-01",
    "busiestHour":16,
    "peakCount":14,
    "busiestDay":-1,
    "hourlyAverage":1.5,
    "peakHour":16,
    "peakHourCount":5,
    "peakHourDay":null,
    "busiestWeekDate":null,
    "busiestMonthDate":null
  },
  "YESTERDAY":{
    "peakDay":null,
    "busiestHour":0,
    "peakCount":0,
    "busiestDay":0,
    "hourlyAverage":0.0,
    "peakHour":0,
    "peakHourCount":0,
    "peakHourDay":null,
    "busiestWeekDate":null,
    "busiestMonthDate":null
  }
}
}
```

Clients API

GET: Excluded Client Counts

Description

This API returns the client counts excluded by filters.

HTTP Method

GET

Resource URI

/api/presence/v1/excluded

Requires OAuth

N

Parameters

Table 130: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	N	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/excluded?siteId=<Site ID>>

Sample Output

```
{
  "repeat":0,
  "dwell":0,
  "ssid":0
}
```

GET: Active Clients

Description

This API returns the active clients seen in the last 20 minutes.

HTTP Method

GET

Resource URI

/api/presence/v1/clients

Requires OAuth

N

Parameters

None.

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/excluded?siteId=<Site ID>

Sample Output

```
[
  {
    "siteEntries":{
      "1487056035936":{
        "macAddress":"ac:c3:3a:87:5c:79",
        "status":"PASSERBY",
        "siteId":1487056035936,
        "siteName":"PSL NOC",
        "firstRssiTime":1488360873407,
        "lastRssiTime":1488360873407,
        "lastMarkedPasserBy":1488360873407,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-83,
        "currentApMacAddress":"00:2a:10:f8:87:50",
        "currentApName":null,
        "lastApMacAddress":null,
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:34:407",
        "lastRssiTimeStamp":"2017-03-01 09:34:407",
        "lastMarkedPasserByTimeStamp":"2017-03-01 09:34:407",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488360873407
      }
    },
    "macAddress":"ac:c3:3a:87:5c:79",
    "changedOn":1488360873407,
    "status":"PASSERBY",
  }
]
```

```

    "ipv4Address":null,
    "ipv6Address":null,
    "ssid":null,
    "bytesReceived":0,
    "bytesSent":0,
    "lastSiteId":0,
    "currentSiteId":1487056035936,
    "rssi":-83,
    "currentSiteName":"PSL NOC",
    "changedOnTimeStamp":"2017-03-01 09:34:407",
    "lastApMacAddress":"",
    "currentApMacAddress":"00:2a:10:f8:87:50",
    "currentApName":null,
    "lastApName":"",
    "lastSiteName":""
  },
  {
    "siteEntries":{
      "1487056035936":{
        "macAddress":"cc:61:e5:88:f0:d8",
        "status":"PASSERBY",
        "siteId":1487056035936,
        "siteName":"PSL NOC",
        "firstRssiTime":1488360977448,
        "lastRssiTime":1488361771824,
        "lastMarkedPasserBy":1488361771824,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-84,
        "currentApMacAddress":"84:3d:c6:14:73:50",
        "currentApName":null,
        "lastApMacAddress":"00:2a:10:f8:87:50",
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:36:448",
        "lastRssiTimeStamp":"2017-03-01 09:49:824",
        "lastMarkedPasserByTimeStamp":"2017-03-01 09:49:824",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488361771824
      },
      "1487260407843":{
        "macAddress":"cc:61:e5:88:f0:d8",
        "status":"PASSERBY",
        "siteId":1487260407843,
        "siteName":"NOC",
        "firstRssiTime":1488361225740,
        "lastRssiTime":1488361589829,
        "lastMarkedPasserBy":1488361589829,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-82,
        "currentApMacAddress":"84:3d:c6:0a:bb:80",
        "currentApName":null,
        "lastApMacAddress":null,

```

```

        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:40:740",
        "lastRssiTimeStamp":"2017-03-01 09:46:829",
        "lastMarkedPasserByTimeStamp":"2017-03-01 09:46:829",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488361589829
    }
},
"macAddress":"cc:61:e5:88:f0:d8",
"changedOn":1488361771824,
"status":"PASSERBY",
"ipv4Address":null,
"ipv6Address":null,
"ssid":null,
"bytesReceived":0,
"bytesSent":0,
"lastSiteId":1487056035936,
"currentSiteId":1487056035936,
"rssi":-84,
"currentSiteName":"PSL NOC",
"changedOnTimeStamp":"2017-03-01 09:49:824",
"lastApMacAddress":"84:3d:c6:14:73:50",
"currentApMacAddress":"84:3d:c6:14:73:50",
"currentApName":null,
"lastApName":null,
"lastSiteName":"PSL NOC"
},
{
"siteEntries":{
"1487056035936":{
"macAddress":"dc:1a:c5:4c:c7:d3",
"status":"PASSERBY",
"siteId":1487056035936,
"siteName":"PSL NOC",
"firstRssiTime":1488361425736,
"lastRssiTime":1488361425736,
"lastMarkedPasserBy":1488361425736,
"firstMarkedVisitor":0,
"lastMarkedVisitor":0,
"firstMarkedAssociated":0,
"lastMarkedAssociated":0,
"lastInfoTime":0,
"rssi":-87,
"currentApMacAddress":"00:2a:10:ee:40:40",
"currentApName":null,
"lastApMacAddress":null,
"lastApName":null,
"controller":"10.222.175.13",
"firstRssiTimeStamp":"2017-03-01 09:43:736",
"lastRssiTimeStamp":"2017-03-01 09:43:736",
"lastMarkedPasserByTimeStamp":"2017-03-01 09:43:736",
"firstMarkedVisitorTimeStamp":"null",
"lastMarkedVisitorTimeStamp":"null",
"lastMarkedAssociatedTimeStamp":"null",
"firstMarkedAssociatedTimeStamp":"null",
"lastInfoTimeStamp":"null",
"lastHeard":1488361425736
}
}
},

```

```

    "macAddress":"dc:1a:c5:4c:c7:d3",
    "changedOn":1488361427739,
    "status":"PASSERBY",
    "ipv4Address":null,
    "ipv6Address":null,
    "ssid":null,
    "bytesReceived":0,
    "bytesSent":0,
    "lastSiteId":1487056035936,
    "currentSiteId":1487056035936,
    "rssi":-87,
    "currentSiteName":"PSL NOC",
    "changedOnTimeStamp":"2017-03-01 09:43:739",
    "lastApMacAddress":"00:2a:10:ee:40:40",
    "currentApMacAddress":"00:2a:10:ee:40:40",
    "currentApName":null,
    "lastApName":null,
    "lastSiteName":"PSL NOC"
  },
  {
    "siteEntries":{
      "1487056035936":{
        "macAddress":"00:08:22:be:76:bb",
        "status":"PASSERBY",
        "siteId":1487056035936,
        "siteName":"PSL NOC",
        "firstRssiTime":1488359961555,
        "lastRssiTime":1488360953775,
        "lastMarkedPasserBy":1488360953775,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-81,
        "currentApMacAddress":"00:2a:10:ee:40:40",
        "currentApName":null,
        "lastApMacAddress":"84:3d:c6:14:73:50",
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:19:555",
        "lastRssiTimeStamp":"2017-03-01 09:35:775",
        "lastMarkedPasserByTimeStamp":"2017-03-01 09:35:775",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488360953775
      },
      "1487260407843":
    ...<etc>
  }
}

```

GET: Client Detail

Description

This API returns the client detail for the specified MAC address for a specified site.

HTTP Method

GET

Resource URI

/api/presence/v1/clients/macaddress

Requires OAuth

N

Parameters*Table 131: Parameter Details*

Name	Required	Default	Type	Location	Description
macaddress	Y	—	String	pathReplace	MAC address
site-id	Y	—	String	pathReplace	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/clients?siteId=<Site ID>&macaddress=<MAC address>

Sample Output

```
[
  {
    "siteEntries":{
      "1487056035936":{
        "macAddress":"50:c8:e5:c5:ba:f0",
        "status":"PASSERBY",
        "siteId":1487056035936,
        "siteName":"PSL NOC",
        "firstRssiTime":1488362139553,
        "lastRssiTime":1488362515548,
        "lastMarkedPasserBy":1488362515548,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-88,
        "currentApMacAddress":"00:2a:10:f8:87:50",
        "currentApName":null,
        "lastApMacAddress":null,
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:55:553",
        "lastRssiTimeStamp":"2017-03-01 10:01:548",
        "lastMarkedPasserByTimeStamp":"2017-03-01 10:01:548",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
      }
    }
  }
]
```

```

        "lastInfoTimeStamp":"null",
        "lastHeard":1488362515548
    },
    "1487260407843":{
        "macAddress":"50:c8:e5:c5:ba:f0",
        "status":"PASSERBY",
        "siteId":1487260407843,
        "siteName":"NOC",
        "firstRssiTime":1488362141536,
        "lastRssiTime":1488362513641,
        "lastMarkedPasserBy":1488362513641,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-92,
        "currentApMacAddress":"84:3d:c6:0a:bb:80",
        "currentApName":null,
        "lastApMacAddress":null,
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 09:55:536",
        "lastRssiTimeStamp":"2017-03-01 10:01:641",
        "lastMarkedPasserByTimeStamp":"2017-03-01 10:01:641",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488362513641
    }
},
"macAddress":"50:c8:e5:c5:ba:f0",
"changedOn":1488362527563,
"status":"PASSERBY",
"ipv4Address":null,
"ipv6Address":null,
"ssid":null,
"bytesReceived":0,
"bytesSent":0,
"lastSiteId":1487056035936,
"currentSiteId":1487056035936,
"rssi":-92,
"currentSiteName":"PSL NOC",
"changedOnTimeStamp":"2017-03-01 10:02:563",
"lastApMacAddress":"00:2a:10:f8:87:50",
"currentApMacAddress":"00:2a:10:f8:87:50",
"currentApName":null,
"lastApName":null,
"lastSiteName":"PSL NOC"
},
{
    "siteEntries":{
        "1487056035936":{
            "macAddress":"cc:61:e5:88:f0:d8",
            "status":"PASSERBY",
            "siteId":1487056035936,
            "siteName":"PSL NOC",
            "firstRssiTime":1488360977448,
            "lastRssiTime":1488361771824,
            "lastMarkedPasserBy":1488361771824,
            "firstMarkedVisitor":0,
            "lastMarkedVisitor":0,
        }
    }
}

```

```

    "firstMarkedAssociated":0,
    "lastMarkedAssociated":0,
    "lastInfoTime":0,
    "rssi":-84,
    "currentApMacAddress":"84:3d:c6:14:73:50",
    "currentApName":null,
    "lastApMacAddress":"00:2a:10:f8:87:50",
    "lastApName":null,
    "controller":"10.222.175.13",
    "firstRssiTimeStamp":"2017-03-01 09:36:448",
    "lastRssiTimeStamp":"2017-03-01 09:49:824",
    "lastMarkedPasserByTimeStamp":"2017-03-01 09:49:824",
    "firstMarkedVisitorTimeStamp":"null",
    "lastMarkedVisitorTimeStamp":"null",
    "lastMarkedAssociatedTimeStamp":"null",
    "firstMarkedAssociatedTimeStamp":"null",
    "lastInfoTimeStamp":"null",
    "lastHeard":1488361771824
  },
  "1487260407843":{
    "macAddress":"cc:61:e5:88:f0:d8",
    "status":"PASSERBY",
    "siteId":1487260407843,
    "siteName":"NOC",
    "firstRssiTime":1488361225740,
    "lastRssiTime":1488361589829,
    "lastMarkedPasserBy":1488361589829,
    "firstMarkedVisitor":0,
    "lastMarkedVisitor":0,
    "firstMarkedAssociated":0,
    "lastMarkedAssociated":0,
    "lastInfoTime":0,
    "rssi":-82,
    "currentApMacAddress":"84:3d:c6:0a:bb:80",
    "currentApName":null,
    "lastApMacAddress":null,
    "lastApName":null,
    "controller":"10.222.175.13",
    "firstRssiTimeStamp":"2017-03-01 09:40:740",
    "lastRssiTimeStamp":"2017-03-01 09:46:829",
    "lastMarkedPasserByTimeStamp":"2017-03-01 09:46:829",
    "firstMarkedVisitorTimeStamp":"null",
    "lastMarkedVisitorTimeStamp":"null",
    "lastMarkedAssociatedTimeStamp":"null",
    "firstMarkedAssociatedTimeStamp":"null",
    "lastInfoTimeStamp":"null",
    "lastHeard":1488361589829
  }
},
"macAddress":"cc:61:e5:88:f0:d8",
"changedOn":1488361771824,
"status":"PASSERBY",
"ipv4Address":null,
"ipv6Address":null,
"ssid":null,
"bytesReceived":0,
"bytesSent":0,
"lastSiteId":1487056035936,
"currentSiteId":1487056035936,
"rssi":-84,
"currentSiteName":"PSL NOC",
"changedOnTimeStamp":"2017-03-01 09:49:824",
"lastApMacAddress":"84:3d:c6:14:73:50",
"currentApMacAddress":"84:3d:c6:14:73:50",

```

```

    "currentApName":null,
    "lastApName":null,
    "lastSiteName":"PSL NOC"
  },
  {
    "siteEntries":{
      "1487056035936":{
        "macAddress":"b4:ce:f6:6e:9d:ea",
        "status":"PASSERBY",
        "siteId":1487056035936,
        "siteName":"PSL NOC",
        "firstRssiTime":1488357877311,
        "lastRssiTime":1488362333581,
        "lastMarkedPasserBy":1488362333581,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-90,
        "currentApMacAddress":"00:2a:10:f8:87:50",
        "currentApName":null,
        "lastApMacAddress":"84:3d:c6:14:73:50",
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 08:44:311",
        "lastRssiTimeStamp":"2017-03-01 09:58:581",
        "lastMarkedPasserByTimeStamp":"2017-03-01 09:58:581",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488362333581
      },
      "1487260407843":{
        "macAddress":"b4:ce:f6:6e:9d:ea",
        "status":"PASSERBY",
        "siteId":1487260407843,
        "siteName":"NOC",
        "firstRssiTime":1488357852934,
        "lastRssiTime":1488362696100,
        "lastMarkedPasserBy":1488362696100,
        "firstMarkedVisitor":0,
        "lastMarkedVisitor":0,
        "firstMarkedAssociated":0,
        "lastMarkedAssociated":0,
        "lastInfoTime":0,
        "rssi":-95,
        "currentApMacAddress":"84:3d:c6:0a:bb:80",
        "currentApName":null,
        "lastApMacAddress":null,
        "lastApName":null,
        "controller":"10.222.175.13",
        "firstRssiTimeStamp":"2017-03-01 08:44:934",
        "lastRssiTimeStamp":"2017-03-01 10:04:100",
        "lastMarkedPasserByTimeStamp":"2017-03-01 10:04:100",
        "firstMarkedVisitorTimeStamp":"null",
        "lastMarkedVisitorTimeStamp":"null",
        "lastMarkedAssociatedTimeStamp":"null",
        "firstMarkedAssociatedTimeStamp":"null",
        "lastInfoTimeStamp":"null",
        "lastHeard":1488362696100
      }
    }
  }
}

```

```
    },
    "macAddress": "b4:ce:f6:6e:9d:ea",
    "changedOn": 1488362696100,
    "status": "PASSERBY",
    "ipv4Address": null,
    "ipv6Address": null,
    "ssid": null,
    "bytesReceived": 0,
    "bytesSent": 0,
    "lastSiteId": 1487260407843,
    "currentSiteId": 1487260407843,
    "rssi": -95,
    "currentSiteName": "NOC",
    "changedOnTimeStamp": "2017-03-01 10:04:100",
    "lastApMacAddress": "84:3d:c6:0a:bb:80",
    "currentApMacAddress": "84:3d:c6:0a:bb:80",
    "currentApName": null,
    "lastApName": null,
    "lastSiteName": "NOC"
  },
  {
    "siteEntries": {
      "1487260407843":
```

GET: Active Client Counts

Description

This API returns the count of active clients that are currently being tracked.

HTTP Method

GET

Resource URI

/api/presence/v1/clients/count

Requires Basic Auth

N

Parameters

None.

Content Type

application/json

API History

Table 132: API History

Release	Modification
Cisco CMX Release 10.4	This API is introduced.

Passersby API

GET: Count of Passersby Today

Description

This API returns the count of passersby seen today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/count/today

Requires OAuth

N

Parameters

Table 133: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/count/today?siteId=<Site ID>

Sample Output

Number

GET: Count of Passersby Yesterday

Description

This API returns the count of passersby seen yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/count/yesterday

Requires OAuth

N

Parameters*Table 134: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/count/yesterday?siteId=<Site ID>

Sample Output

Number

GET: Average Count of Passersby in Last 3 Days

Description

This API returns the average count of passersby seen in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/count/3days

Parameters*Table 135: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines <https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/count/3days?siteId=<Site ID>>

Sample Output

Number

GET: Average Count of Passersby in the Last 7 days

Description

This API returns the average count of passersby seen in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/count/lastweek

Requires OAuth

N

Parameters

Table 136: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines <https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/count/lastweek?siteId=<Site ID>>

Sample Output

Number

GET: Average Count of Passersby in the Last 30 Days

Description

This API returns the average count of passersby seen in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/count/lastmonth

Parameters*Table 137: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passerby/count/lastmonth?siteId=<Site ID>

Sample Output

Number

GET: Sum of Passerby Counts in the Specified Date Range

Description

This API returns the sum of passerby counts for each day in the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/total

Parameters*Table 138: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date in format of yyyy-mm-dd
endDate	Y	—	String	query	End Date in format of yyyy-mm-dd

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passerby/total?siteId=<Site ID>&startDate=yyyy-mm-dd&endDate=yyyy-mm-dd

Sample Output

Number

GET: Sum of Passerby Counts in the Last 3 Days

Description

This API returns the sum of passerby counts for each day in the last 3 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/total/3days

Requires OAuth

N

Parameters*Table 139: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passerby/total/3days?siteId=<Site ID>

Sample Output

Number

GET: Sum of Passerby Counts in the Last 7 Days

Description

This API returns the sum of passerby counts for each day in the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/total/lastweek

Requires OAuth

N

Parameters

Table 140: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/passerby/total/lastweek?siteId=<Site ID>>

Sample Output

Number

GET: Count of Passersby on a Given Date

Description

This API returns the count of passersby seen on a given day.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/count

Requires OAuth

N

Parameters*Table 141: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date in format of yyyy-mm-dd

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/passerby/count?siteId=<Site ID>&date=<date in yyyy-mm-dd>>

Sample Output

Number

GET: Sum of Passerby Counts in the Last 30 days

Description

This API returns the sum of passerby counts for each day in the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passerby/total/lastmonth

Requires OAuth

N

Parameters*Table 142: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/total/lastmonth?siteId=<Site ID>

Sample Output

Number

GET: Hourly Count of Passersby Today

Description

This API returns the hourly count of passersby today until now.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/hourly/today

Requires OAuth

N

Parameters*Table 143: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/hourly/today?siteId=<Site ID>

Sample Output

```
{
  "0": 85,
  "1": 45,
  "2": 42,
  "3": 45,
  "4": 46,
  "5": 48,
  "6": 89,
  "7": 180,
  "8": 316,
```

```

    "9":618,
    "10":886,
    "11":587,
    "12":263
  }

```

GET: Hourly Count of Passersby Yesterday

Description

This API returns the hourly count of passersby yesterday.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/hourly/yesterday

Requires OAuth

N

Parameters

Table 144: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/hourly/yesterday?siteId=<Site ID>

Sample Output

```

{
  "0":85,
  "1":45,
  "2":42,
  "3":45,
  "4":46,
  "5":48,
  "6":89,
  "7":180,
  "8":316,
  "9":618,
  "10":886,
  "11":587,
  "12":263
}

```

GET: Hourly Count of Passersby for Last 3 days

Description

This API returns the hourly count of passersby for the last 3 days including today.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/hourly/3days

Requires OAuth

N

Parameters

Table 145: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/hourly/3days?siteId=<Site ID>

Sample Output

```
{
  "2017-02-27": {
    "0": 0,
    "1": 61,
    "2": 71,
    "3": 71,
    "4": 19,
    "5": 43,
    "6": 119,
    "7": 182,
    "8": 352,
    "9": 732,
    "10": 887,
    "11": 681,
    "12": 643,
    "13": 834,
    "14": 690,
    "15": 605,
    "16": 701,
    "17": 916,
    "18": 990,
    "19": 1124,
  }
}
```



```
        "20":902,  
        "21":604,  
        "22":314,  
        "23":150  
    },  
    "2017-02-28":{  
        "0":143,  
        "1":47,  
        "2":34,  
        "3":39,  
        "4":62,  
        "5":35,  
        "6":71,  
        "7":159,  
        "8":298,  
        "9":739,  
        "10":820,  
        "11":648,  
        "12":577,  
        "13":664,  
        "14":702,  
        "15":542,  
        "16":604,  
        "17":725,  
        "18":1112,  
        "19":1097,  
        "20":919,  
        "21":706,  
        "22":477,  
        "23":188  
    },  
    "2017-03-01":{  
        "0":85,  
        "1":45,  
        "2":42,  
        "3":45,  
        "4":46,  
        "5":48,  
        "6":89,  
        "7":180,  
        "8":316,  
        "9":618,  
        "10":886,  
        "11":587,  
        "12":288  
    }  
}
```

GET: Hourly Count of Passersby for a Day

Description

This API returns the hourly count of passersby for the specified date.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/hourly

Requires OAuth

N

Parameters*Table 146: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
date	Y	—	String	query	Date in format of yyyy-mm-dd

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/hourly?siteId=<Site ID>&date=<date in yyyy-mm-dd>

Sample Output

```
{
  "0": 85,
  "1": 45,
  "2": 42,
  "3": 45,
  "4": 46,
  "5": 48,
  "6": 89,
  "7": 180,
  "8": 316,
  "9": 618,
  "10": 886,
  "11": 586,
  "12": 321
}
```

GET: Daily Count of Passersby for a Specified Date Range

Description

This API returns the daily count of passersby for the specified date range.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/daily

Requires OAuth

N

Parameters*Table 147: Parameter Details*

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date in yyyy-mm-dd format
endDate	Y	—	String	query	End Date in yyyy-mm-dd format

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/daily?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>>

Sample Output

```
{
  "2017-02-01":0,
  "2017-02-02":0,
  "2017-02-03":0,
  "2017-02-04":0,
  "2017-02-05":0,
  "2017-02-06":0,
  "2017-02-07":0,
  "2017-02-08":0,
  "2017-02-09":0,
  "2017-02-10":0,
  "2017-02-11":0,
  "2017-02-12":0,
  "2017-02-13":0,
  "2017-02-14":7221,
  "2017-02-15":8461,
  "2017-02-16":12151,
  "2017-02-17":11309,
  "2017-02-18":11968,
  "2017-02-19":8076,
  "2017-02-20":11406,
  "2017-02-21":8776,
  "2017-02-22":10403,
  "2017-02-23":10149,
  "2017-02-24":9566,
```

```

    "2017-02-25": 9215,
    "2017-02-26": 7042,
    "2017-02-27": 10073,
    "2017-02-28": 9599,
    "2017-03-01": 4438
  }

```

GET: Daily Count of Passersby for the Last 7 days

Description

This API returns the daily count of passersby for the last 7 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/daily/lastweek

Requires OAuth

N

Parameters

Table 148: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/daily/lastweek?siteId=<Site ID>>

Sample Output

```

{
  "2017-02-01": 0,
  "2017-02-02": 0,
  "2017-02-03": 0,
  "2017-02-04": 0,
  "2017-02-05": 0,
  "2017-02-06": 0,
  "2017-02-07": 0,
  "2017-02-08": 0,
  "2017-02-09": 0,
  "2017-02-10": 0,
  "2017-02-11": 0,
  "2017-02-12": 0,
  "2017-02-13": 0,
  "2017-02-14": 7221,
}

```

```

    "2017-02-15":8461,
    "2017-02-16":12151,
    "2017-02-17":11309,
    "2017-02-18":11968,
    "2017-02-19":8076,
    "2017-02-20":11406,
    "2017-02-21":8776,
    "2017-02-22":10403,
    "2017-02-23":10149,
    "2017-02-24":9566,
    "2017-02-25":9215,
    "2017-02-26":7042,
    "2017-02-27":10073,
    "2017-02-28":9599,
    "2017-03-01":4438
  }

```

GET: Daily count of passersby for the last 30 days

Description

This API returns the daily count of passersby for the last 30 days.

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/daily/lastmonth

Requires OAuth

N

Parameters

Table 149: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID

Content Type

application/json

Usage Guidelines

https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/daily/lastmonth?siteId=<Site ID>

Sample Output

```

{
  "2017-01-31":0,
  "2017-02-01":0,
  "2017-02-02":0,
  "2017-02-03":0,

```

```

"2017-02-04":0,
"2017-02-05":0,
"2017-02-06":0,
"2017-02-07":0,
"2017-02-08":0,
"2017-02-09":0,
"2017-02-10":0,
"2017-02-11":0,
"2017-02-12":0,
"2017-02-13":0,
"2017-02-14":7221,
"2017-02-15":8461,
"2017-02-16":12151,
"2017-02-17":11309,
"2017-02-18":11968,
"2017-02-19":8076,
"2017-02-20":11406,
"2017-02-21":8776,
"2017-02-22":10403,
"2017-02-23":10149,
"2017-02-24":9566,
"2017-02-25":9215,
"2017-02-26":7042,
"2017-02-27":10073,
"2017-02-28":9599,
"2017-03-01":4483
}

```

GET: Daily Count of Passersby by hour for the Specified Date Range

Description

This API returns the daily count of passersby by hour category for the specified date range

HTTP Method

GET

Resource URI

/api/presence/v1/passersby/daily/hourcategory

Requires OAuth

N

Parameters

Table 150: Parameter Details

Name	Required	Default	Type	Location	Description
siteId	Y	—	Number	query	Site ID
startDate	Y	—	String	query	Start Date in yyyy-mm-dd format

Name	Required	Default	Type	Location	Description
endDate	Y	—	String	query	End Date in yyyy-mm-dd format

Content Type

application/json

Usage Guidelines

<https://<tenant-id>.cmxcisco.com/api/presence/v1/passersby/daily/hourcategory?siteId=<Site ID>&startDate=<date in yyyy-mm-dd>&endDate=<date in yyyy-mm-dd>>

Sample Output

```
{
  "2017-02-01":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-02":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-03":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-04":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-05":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-06":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-07":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-08":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  },
  "2017-02-09":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  }
}
```

```
},
"2017-02-10":{
  "business_hours":null,
  "evening_hours":null,
  "morning_hours":null
},
"2017-02-11":{
  "business_hours":null,
  "evening_hours":null,
  "morning_hours":null
},
"2017-02-12":{
  "business_hours":null,
  "evening_hours":null,
  "morning_hours":null
},
"2017-02-13":{
  "business_hours":null,
  "evening_hours":null,
  "morning_hours":null
},
"2017-02-14":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-15":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-16":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-17":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-18":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-19":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-20":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-21":{
  "business_hours":0,
  "evening_hours":0,
  "morning_hours":0
},
"2017-02-22":{
  "business_hours":0,
  "evening_hours":0,
```



```
    "morning_hours":0
  },
  "2017-02-23":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-02-24":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-02-25":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-02-26":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-02-27":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-02-28":{
    "business_hours":0,
    "evening_hours":0,
    "morning_hours":0
  },
  "2017-03-01":{
    "business_hours":null,
    "evening_hours":null,
    "morning_hours":null
  }
}
```

