



## Location Analytics Home Page Components

The Location Analytics user interface allows you to analyze the wireless devices location information using different analysis techniques.

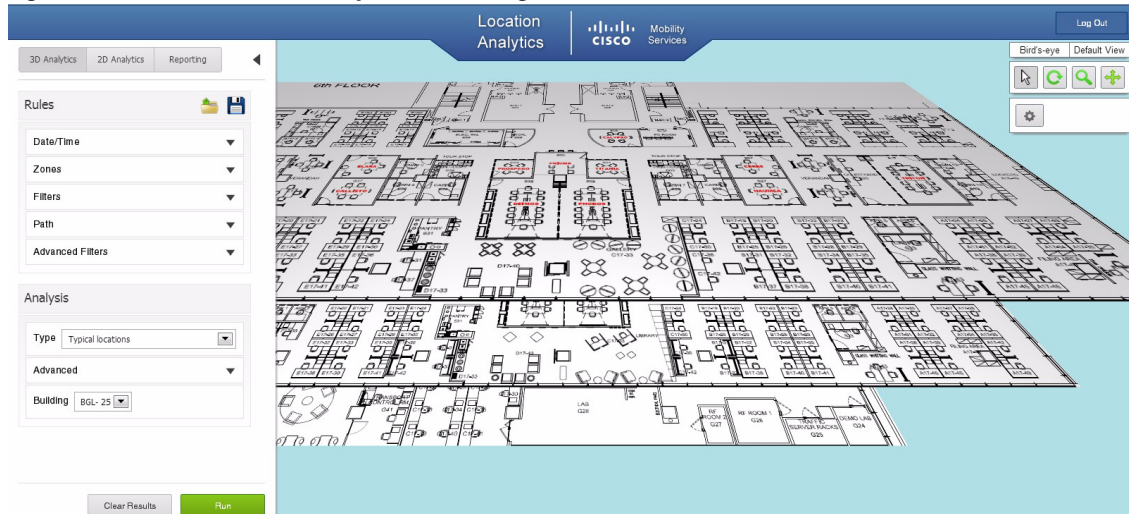
Log into the Location Analytics user interface with your username and password. The following figure shows the Location Analytics User Login page.

**Figure 4-1** Location Analytics User Login Page

A screenshot of the Location Analytics User Login page. The page has a blue header with the text 'Location Analytics' and the Cisco logo with 'Cisco Mobility Services' next to it. Below the header is a white login form titled 'User Login'. The form contains two input fields: the first is for the username, with 'admin' entered; the second is for the password, with dots representing the masked text. Below the password field is a checkbox labeled 'Remember Me'. To the right of the form is a green 'Log In' button. A small vertical number '346691' is visible on the right side of the page.

After login in, the Location Analytics home page appears.

Figure 4-2 Location Analytics Home Page



The Location Analytics home page contains the following:

- Left Pane
  - [3D Analytics Tab, page 4-4](#)
  - [2D Analytics, page 4-5](#)
  - [Reporting tab, page 4-5](#)
  - [Rules Group Box, page 4-2](#)
  - [Analysis Group Box, page 4-4](#)

The blue color inverted triangle next to the top bar allows the Analysis control panel to be moved off screen, thus providing greater space for visualization.

- Right Pane
  - [Visualization Pane, page 4-5](#)
  - [Auxiliary Information Dashlet, page 4-6](#)

## Rules Group Box

The Rules group box allows you to identify the specific set of devices to which the analytics have to be applied. In order to describe the subset of this data, parameterized rule types have been created for the user to describe these devices.

The Rules group box displays the following:

- Date/Time—The date/time rule allows you to select a specific date (or range of dates) and/or a time period for which you want the analytics to be applied. Click on the black inverted triangle to configure Date/Time.
- Zones
- Filters
- Path
- Advanced Filters

- **Date/Time**—The Date/Time rule allows you to select a specific date or range of dates and time or range of time period for which you want the analytics to be applied. Click the black inverted triangle to configure Date/Time.

**Note**


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The date selector allows you to select only dates for which there exist data.

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Select the Date checkbox to enable the Date and click the Date text box to open the Calendar and to perform the following:

- **Specific Date**—Select this option if you want the analytics to be applied based on the specific date.
- **All Dates Before**—If you select this option, all dates before the selected date are considered for analysis.
- **All Dates After**—If you select this option, all dates after the selected date are considered for analysis.
- **Date Range**—If you select this option, the analytics will be applied between the selected Start Date and End Date.
- **Zones**—Click the black inverted triangle to open the Restrict to Zones.
  - **Restrict to Zones**—Select the Restrict to Zones check box and choose one or multiple zones from the drop-down list to restrict your analysis to selected zones. If you are interested in analyzing only certain part of the building, then information about the selected part is displayed.

**Note**


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Zones are defined as coverage areas in the Prime Infrastructure.

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- **Filters**—Click the black inverted triangle to configure the following constraints on the points with different dwell time. This option allows you to select the data for analysis based on quantitative constraints on paths.

You can select the following different quantitative constraints that you can use on paths from the Path Filters are:

- **Length**—Length restricts the analysis to those paths within the sum of the straight line distances between the points.
- **Duration**—Duration restricts the analysis to the total duration between the first and the last time points on the path.
- **Hops**—Hops is the measure of the number of location observations made on that path.
- **Path**—Click the black inverted triangle to open the Path window that allows you to select those devices that have followed a particular path through the predefined zones for analysis. The options are:
  - **Starts In**—Select the zone where the wireless device was first detected from the Starts In drop-down list.
  - **Visits**—Select the intermediate zone through which the device passes through from the Visits drop-down list.
  - **Ends In**—Select the zone where the device was last detected from the Ends In drop-down list.
- **Load a rule set**—This option allows you to load the predefined rules. You can create a number of different rules and load them. A number of rules together constitute a ruleset.
- **Save this rule set**—After creating rules, you can save them and load the rule when you require them.

- These can also be saved as Rule Sets.

## Analysis Group Box

The Analysis group box allows you to perform different analysis on devices that are passing through a building or environment. The Analysis group box displays the following:

- Type—Select the type of analyses you can perform from the Type drop-down list.
  - Typical Locations—For more information on Typical Locations, see [Typical Location Analysis, page 5-1](#)
  - Typical Paths—For more information on Typical Paths, see [Typical Path Analysis, page 5-3](#)
- Advanced—Click the black inverted triangle icon to configure the following: number of locations that you want to include in the analysis.




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**Note** The Advanced option depends on the initial type of analysis that you have chosen. There is a different one for Typical paths.

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A large number of locations will result in breakdown of the building into many areas.

- Number of Locations—Enter the number of locations or paths that you want to include in the analysis. A large number of locations for Typical location analysis results in a dense concentration of markers across an area.
- Building—Select the location from the Building drop-down list.

## 3D Analytics Tab

Location analytics provides the ability to view the analytic results in 3D environment. This provides an improved understanding of results, especially on multiple floor paths or when dwell times are calculated throughout the multi-storey building.

This section contains the

- [Prerequisites for viewing Location Analytics in 3D, page 4-4](#)
- [Viewing Analytics in the 3D Environment, page 4-4](#)

### Prerequisites for viewing Location Analytics in 3D

- Location Analytics system must be installed and configured
- Ensure that sufficient points or devices are present in the device or path database.
- Floor plans are present in the MSE database through Prime Infrastructure.
- Ensure that zones have been defined and overlays are supplied.

### Viewing Analytics in the 3D Environment

To view the analytics results in the 3D environment, follow these steps:

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- Step 1** From the Rules Group box, you can set rule types to specify which devices have to be considered for analysis based on different rules parameters. For information on Rules parameters, see [Rules Group Box, page 4-2](#).
- Step 2** From the Analysis group box, you can perform different analysis on devices that are passing through a building or environment. To perform different analysis, see [Typical Location Analysis, page 5-1](#) and [Typical Path Analysis, page 5-3](#).
- Step 3** Click Run.
- Step 4** Click 3D Analytics to view the results in the 3D environment.  
The results are displayed in the right pane.
- Step 5** Click the Navigation buttons available in the Auxiliary Information window to see different overlays of the building and also different views of the floors. The 3D environment provides the ability to switch on/off floors.
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## 2D Analytics

To view the analytics results in the 2D environment, follow these steps:

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- Step 1** From the Rules Group box, you can set rule types to specify which devices have to be considered for analysis based on different rules parameters. In order to set rules parameters, see [Rules Group Box, page 4-2](#).
- Step 2** From the Analysis group box, you can perform different analysis on devices that are passing through a building or environment. In order to perform different analysis, see [Typical Location Analysis, page 5-1](#) and [Typical Path Analysis, page 5-3](#).
- Step 3** Click Run.
- Step 4** Click 2D Analytics to view the results in the 2D environment.  
The result is displayed in the right pane.

## Reporting tab

The location analytics reporting is necessary to monitor common behavioural patterns over time. A number of reports can be generated and provides more regular and task oriented set of information. The location analytics reports give deep analytic insight and provides a degree of flexibility in the types of reports that are generated. See the [Reports, page 6-1](#) section for more information.

## Visualization Pane

You can view the following in the visualization pane:

- Analytics results of 2D or 3D environment.
- Report results in the visualization pane.

## Auxiliary Information Dashlet

You can access the Auxiliary Information dashlet at the top right corner of the right page. The auxiliary information menu provides access to the 3D navigation and visible overlays on the building or area when you are in the 3D environment. Click icon in the right pane and choose the additional information on the building or area for analysis. You can include additional information like switching floors on/off, layout of access points, any point of interest, or the actual cluster area.