

# Labels user guide

A typical retail store has multiple cameras and multiple point of sale terminals. The data is more meaningful when aggregated for the whole store thus KAI UP supports you to use label to aggregate the meaningful data.

## Labels concept

### Aggregation Using Labels

KAI UP supports aggregation of video analysis data from multiple cameras of a store. This can be done using the Label Management module. Aggregated sales data can be viewed with the aggregated video analytics data, for better co-relation.

For example, consider a retail chain called “Alpha Retail”, which has 2 retail shops called “City Hall” and “Downtown”. Each shop has 2 KAI Nodes. In the customer account there would be total 4 nodes, perhaps named “CH Floor 1”, “CH Floor 2”, “DT East” and “DT West”. “CH Floor 1” and “CH Floor 2” can be labelled together to "store label" under the name “City Hall”; “DT East” and “DT West” can be labelled together "store label" under the name “Downtown”. (Figure 1)

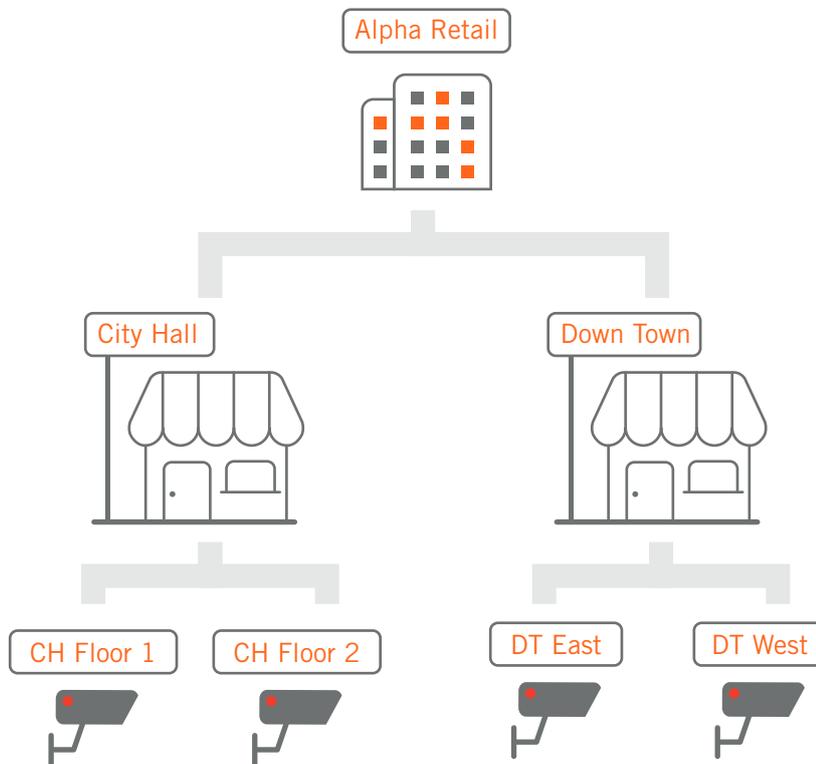
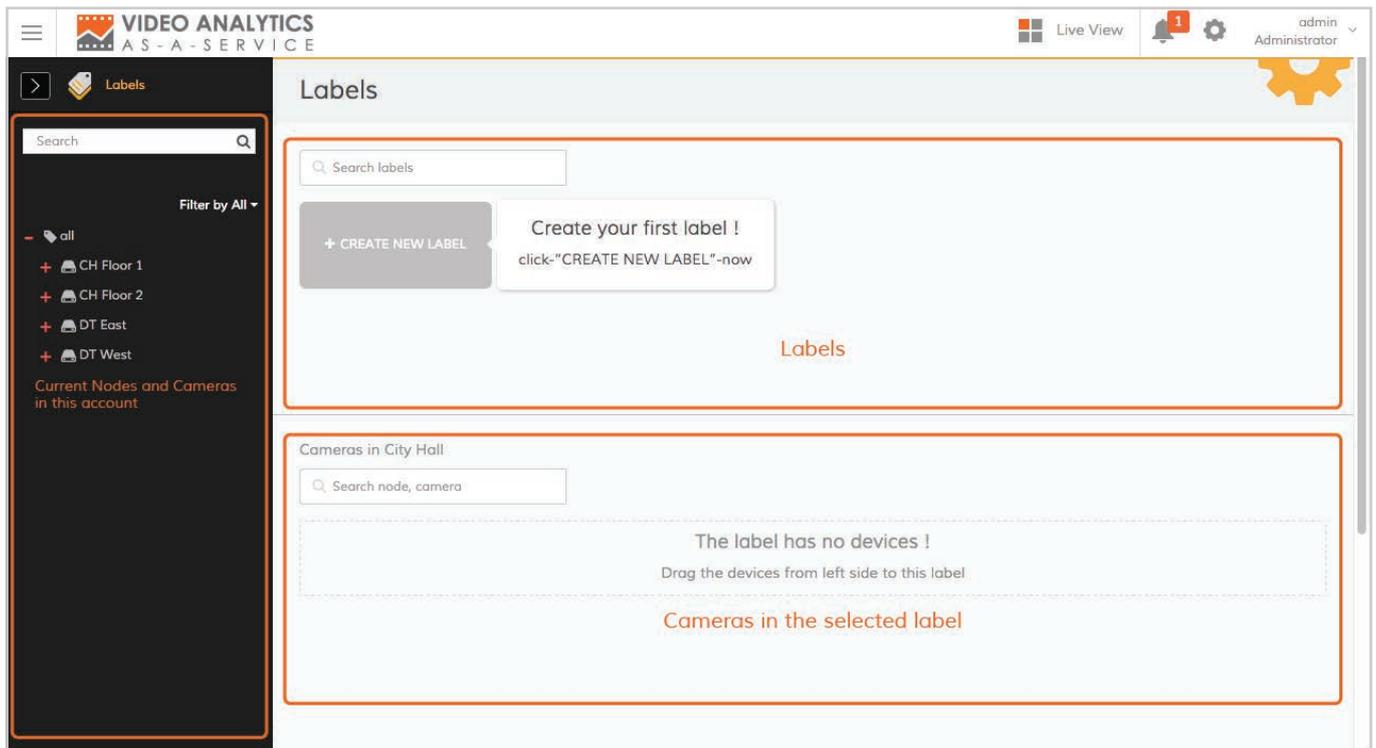


Figure 1. The example of label system structure.

To do this, go to Labels and follow the on-screen instructions or the screenshots below.

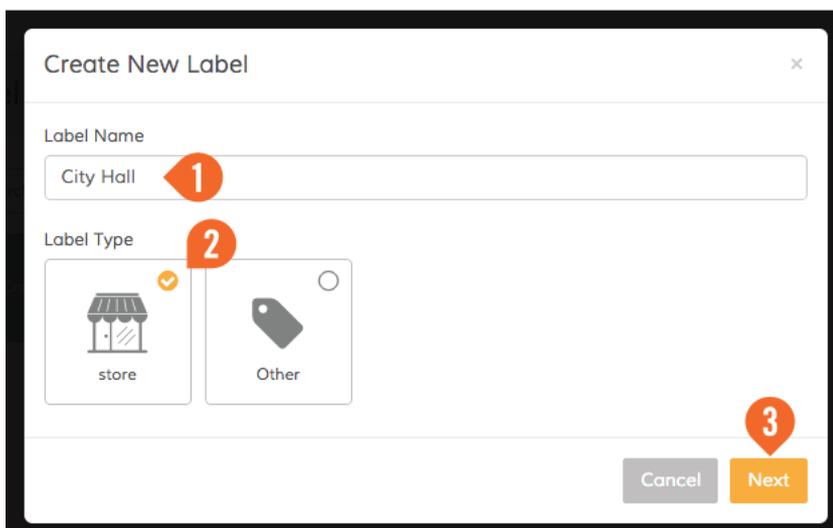
# 01

Go to Labels and create a new label



# 02

Create a new label and select store label type ( If select Other label, can jump to step 4 )



# 03

## Set up the store label

The screenshot shows a 'Create New Label' dialog box with the following sections:

- Location:** A text input field containing 'Singapore' and a map icon.
- Weekend Setting:** A heading 'Please select the holidays of the week' followed by a row of seven buttons: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, and Sunday. Saturday and Sunday are highlighted in grey.
- Opening Hours:** Three radio button options: 'Everyday from 08:00 To 18:00' (selected), '24 hours, the lowest hour is at 08:00', and 'Customized'.
- Occupancy Settings:** A radio button option 'Send me an alert when occupancy is up to below numbers' (selected). Below it is a control with a minus sign, the number '100', a plus sign, the word 'people', and a text input field containing 'Notification Message'. An 'Add More' button is below this control.
- Navigation:** 'Previous' and 'Save' buttons at the bottom right.

As you set up more detail about this store label, our VAAaS will provide you more accurate and abundant report.

### / Location

Type in the store's location or click in the map icon to pin your shop's location.

### / Weekend Setting

#### Everyday

**24 hours** (For stores which operated 24 hours, there might be build-up of a small counting inaccuracy over an extended period of time. This is offset at the lowest traffic hour to provide better results.)

#### Customized

You can set up the customized hours.

### / Occupancy Settings

You can set different occupancy number and system will send you an alert when the occupancy is up to the numbers.

# 04 Drag Node or Camera

The screenshot displays the 'Labels' management interface in the Video Analytics AS-A-Service application. On the left sidebar, a list of labels is shown: 'all', 'CH Floor 1', 'CH Floor 2', 'DT East', and 'DT West'. A callout box with a '1' indicates that clicking on these labels leads to a view of nodes and cameras. The main area features a search bar for labels, a '+ Create New Label' button, and two existing labels: 'City Hall' (teal) and 'Down Town' (red). A callout box with a '2' and a 'Got it!' button instructs the user to 'Drag to add camera or node into label!'. Below the labels, a dashed box contains the message: 'The label has no devices! Drop on the desired label. Drag the devices from left side to this label!'. The footer includes copyright information: 'v4.3 Copyright © 2014 KAI Square | All Rights Reserved. Best viewed using Mozilla Firefox (3.5 or newer) with Adobe Flash Player (10.0 or newer). Terms & Privacy'.

# 05 Label Set up complete

The screenshot shows the 'Labels' management interface. On the left, a sidebar contains a search bar and a filter menu with options: 'all', 'CH Floor 1', 'CH Floor 2', 'DT East', and 'DT West'. The main content area is titled 'Labels' and includes a search bar for labels. Below this, there are three buttons: '+ CREATE NEW LABEL', 'City Hall' (highlighted in orange), and 'Down Town'. The 'Cameras in City Hall' section features a search bar and a message: 'All nodes in the City Hall store are aggregated under the City Hall Label.' Below the message, there are two rows of camera nodes, each with a search bar and a 'Node' label. The first row shows 'CH Floor 1' nodes: 'Amtk171', 'Amtk172', 'Node CH Floor 1 mtk173', and 'Amtk174'. The second row shows 'CH Floor 2' nodes: 'Axis174', 'Axis175', 'Node CH Floor 2 kis176', and 'Axis177'. Each node has a 'PD' button and a set of filter buttons (CD, HT, FI, AP).

The screenshot shows the 'Labels' management interface for 'Down Town'. The sidebar is identical to the previous screenshot. The main content area is titled 'Labels' and includes a search bar for labels. Below this, there are three buttons: '+ CREATE NEW LABEL', 'City Hall', and 'Down Town' (highlighted in orange). The 'Cameras in empty label' section features a search bar and a message: 'All nodes in the Down Town store are aggregated under the Down Town Label.' Below the message, there are two rows of camera nodes, each with a search bar and a 'Node' label. The first row shows 'DT East' nodes: 'Camera1', 'Camera2', 'Node DT East Camera3', and 'Camera4'. The second row shows 'DT West' nodes: 'IP Camera1', 'IP Camera2', 'Node DT West P Camera3', and 'IP Camera4'. Each node has a 'PD' button and a set of filter buttons (AP, ID, FI).

# 06

Labels can be selected as data sources for generating aggregated reports.

The screenshot displays the 'People Counting' dashboard. On the left, a sidebar lists labels: 'all', 'City Hall', and 'Down Town'. A red circle '1' highlights the 'City Hall' label, and an arrow points to a 'City Hall' label on the main dashboard. Another red circle '2' highlights the 'City Hall' label in the top navigation bar. A third red circle '3' highlights the 'admin Administrator' user profile in the top right corner. The main dashboard area shows a 'People Counting' header with a date range of 'January 1, 2016 - January 31, 2016'. Below this is a 'Compare POS data now!' section with a 'How to Import?' button and a 'Show Demo' button. The main chart is titled 'Visitors vs Time' and shows a line graph with a peak around 12:00 on Jan 04. The y-axis ranges from 60 to 120. The x-axis shows dates from Jan 03 to Jan 05. A status bar at the bottom right indicates 'Window size: 1276 x 777' and 'Viewport size: 1276 x 705'.

# POS Management and Data Format

KAI Unified Platform can include Point of Sale (POS) data in its reports, for comparison with Video Analytics data. There are 2 ways to import your POS data into your KAI Unified Platform account:

1. Automatically via FTP file upload
2. Manual insertion

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## Automatically via FTP file upload

### File Naming Convention

After the aggregation using label, we will have eg. City Hall label. The aggregated POS data for City Happ retail shop should be in a file named "City Hall.csv". KAI UP will automatically co-related the data by comparing POS data file name with the label name.

### Data Format

Data must be in Semi-colon Separated Values (SSV) format, which is like the commonly used CSV format, but uses semi-colon as the field delimiter.

It should have the following columns:

**/ Date** (yyyy-mm-dd)

**/ Time** (hh:mm - hh:mm)

**/ Receipt Count** (a numeric value or empty if no data, commas are allowed, leading/trailing spaces are ignored)

**/ Sales Amount** (a numeric value or empty if no data, commas are allowed, dot is allowed for decimal point, leading/trailing spaces are ignored)

Each row should be consolidated sales data of 1 hour, in multiples of 1 hour. The following are valid:

**/ 10:01 - 11:00**

**/ 16:01 - 18:00**

**/ 00:00 - 09:00**

Example rows

**/ 2014-06-11;10:01 - 11:00;31 ;25943.80**

**/ 2014-06-11;00:00 - 08:00;;**

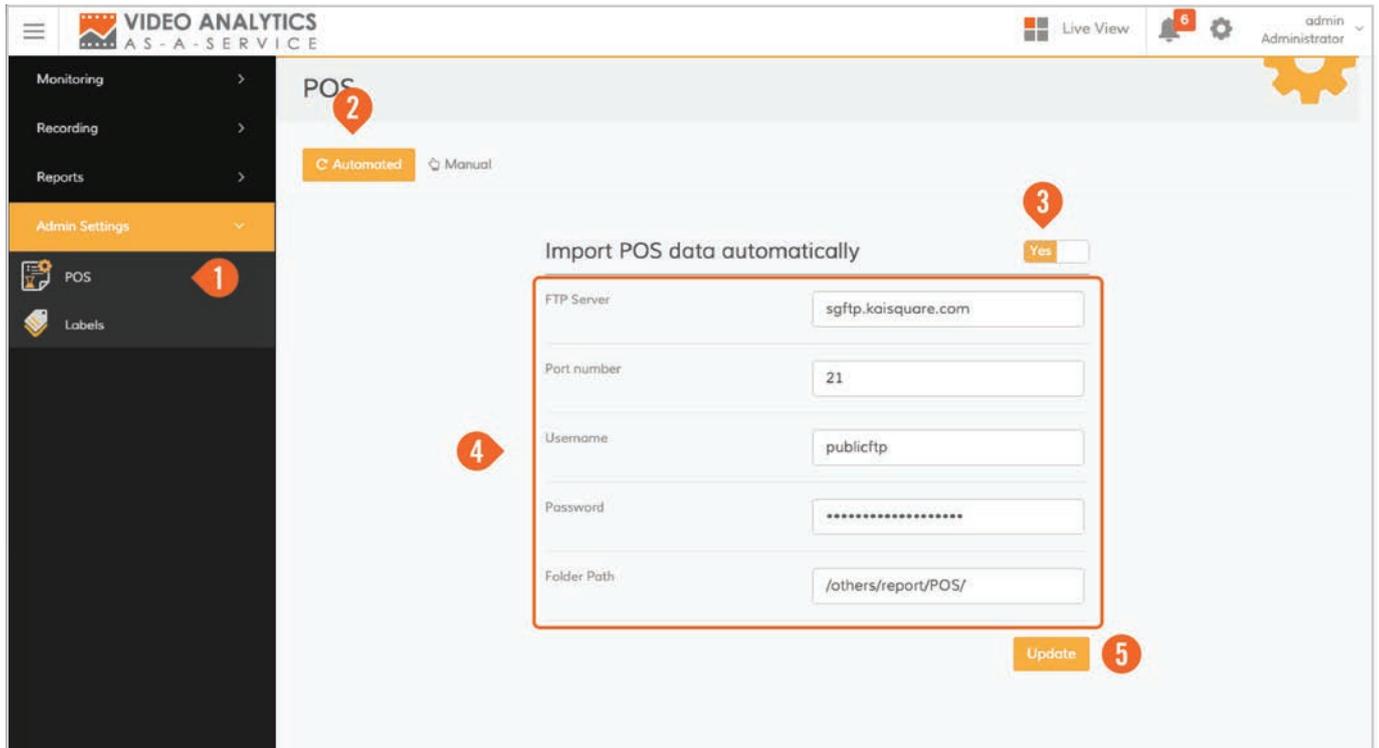
**/ 2014-06-11;20:01 - 21:00;98 ;227,937.75**

Sample file

**/ City Hall. csv download**

## Configuration of Automatic FTP Download

To set up automatic integration between your POS data and KAI UP, place your POS data file(s) on an FTP server and then configure your KAI UP account to download.



### / FTP Server

Type in the customer's FTP server hostname e.g. ftp.alpharetail.com

### / Port Number

The FTP server port number

### / Username

The username to be used for logging in to customer's FTP server

### / Password

The password to be used for logging in to customer's FTP server

### / Folder Path

The location on FTP server where the POS data files are stored e.g. "/export/kaiup"

## Manual Insertion

If you prefer to insert the POS data manually into KAI UP, go to “POS Management” module of your KAI UP account and follow the screenshots below.

The screenshot displays the 'POS Management' interface. On the left sidebar, 'Admin Settings' is expanded, and 'POS' is selected (1). The main content area shows 'Automated' and 'Manual' (2) tabs. Below the tabs, there are 'Labels' (3) and 'Period' (4) dropdown menus. The 'Period' is set to '2016/04/13 00:00 - 2016/04/13 23:00'. A table displays receipt data with columns for 'datetime', 'Number of Receipts' (5), and 'Sales Amount'. The 'Number of Receipts' column for the first row is highlighted with a red box. A 'Save' button (6) is located in the bottom right corner.

datetime	Number of Receipts	Sales Amount
2016/04/13 00:00	0	0
2016/04/13 01:00	0	0
2016/04/13 02:00	0	0
2016/04/13 03:00	0	0
2016/04/13 04:00	0	0
2016/04/13 05:00	0	0
2016/04/13 06:00	0	0
2016/04/13 07:00	0	0

## POS Data Co-relation in People Counting Report

Once your account has POS data, the People Counting report will display the conversion ratio

