

# 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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# Aggregation Using Labels

A typical retail store has multiple cameras and multiple point of sale terminals. This data is more meaningful when aggregated for the whole store. 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 under the name “City Hall”; “DT East” and “DT West” can be labelled together under the name “Downtown” (Figure 1).

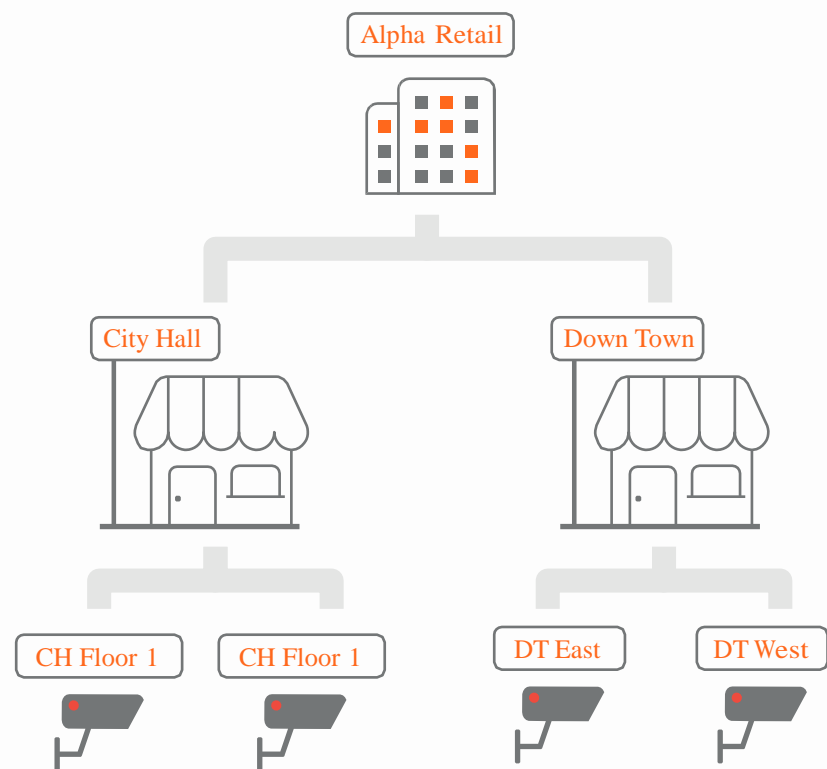
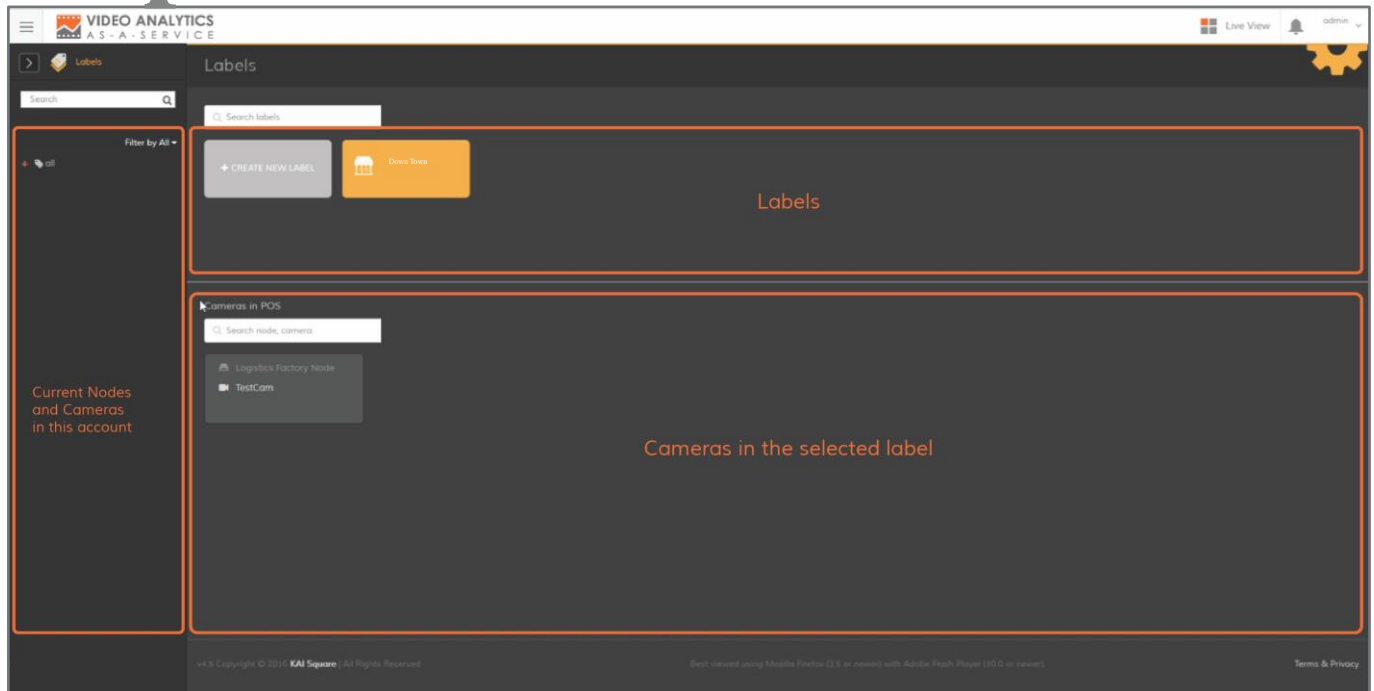


Figure 1. The example of label system structure.

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

# step1

Go to Label Management.



# step2

Create new label and click next

The 'Create New Label' dialog box is shown. It has a title bar with a close button. The 'Label Name' field contains 'City Hall'. The 'Label Type' section has two options: 'store' (selected with a checkmark) and 'Other'. At the bottom, there are 'Cancel' and 'Next' buttons. Red numbered circles 1, 2, and 3 highlight the 'Label Name' field, the 'store' option, and the 'Next' button respectively.

# step3

Fill details and save

## Aggregation Using Labels

### Create New Label

Location

Singapore

Weekend Setting

Please select the holidays of the week

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

Opening Hours

☒ Everyday from 08 : 00 To 18 : 00

☐ 24 hours, the lowest hour is at 08 : 00

☐ Customized

Previous Save

# step4

Assign Node or Camera to a Label by dropping on the desired Label

VIDEO ANALYTICS  
AS - A - SERVICE

Labels

Search

Filter by All

all

Logistics Factory Node

TestCam

Labels

Search labels

+ CREATE NEW LABEL

TestCam

Cameras in CH Floor 1

Search node, camera

Drop on the desired label.

1

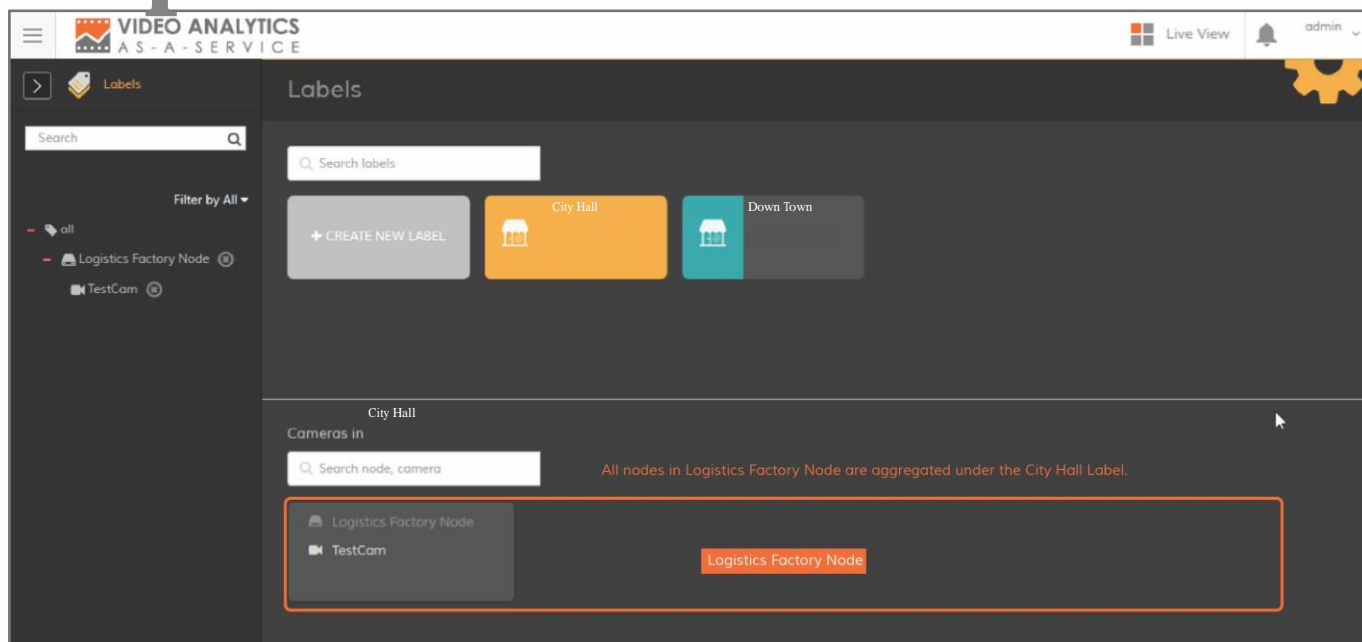
Click to view Nodes & Cameras assigned to a label.

2

Drop on the desired label.

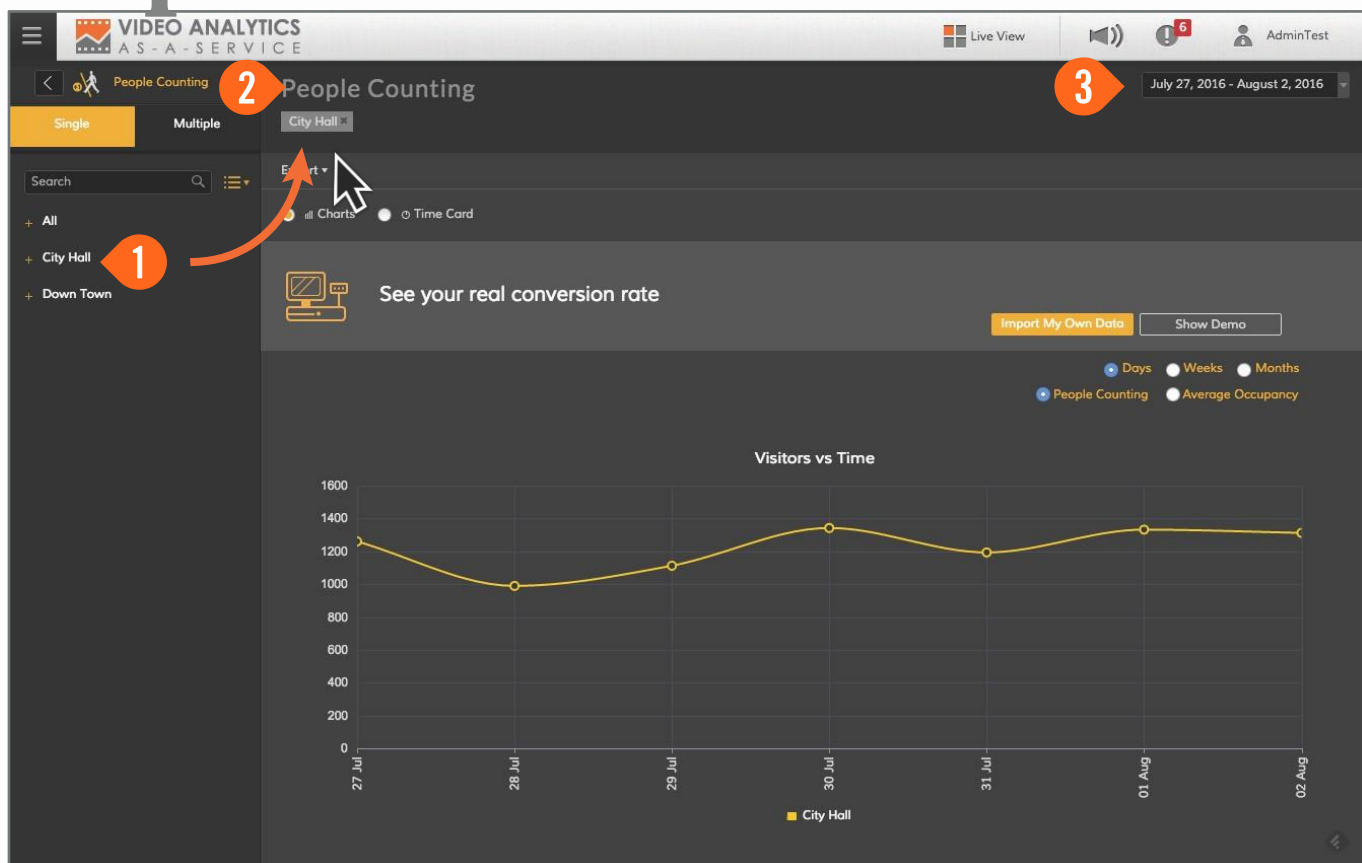
# step5

Label set up complete



# step6

Go to People Counting, labels can be selected as data sources for generating aggregated reports



# POS Data Integration

## 1. FTP or SFTP File Upload

### File Naming Convention

Continuing with the above example, the aggregated POS data for City Hall retail shop should be in a file named “City Hall.csv”. KAI UP will automatically co-relate 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 or SFTP Server and then configure your KAI UP account to download and import this data periodically.

The screenshot shows the 'POS Settings' page in the VIDEO ANALYTICS AS-A-SERVICE interface. The left sidebar contains a navigation menu with items like 'Settings', 'User Management', 'Role Management', 'Device Management', 'Device List', 'Periodic Report Management', 'POS Management', 'My Licenses', 'Label Management', and 'Location Management'. The 'Settings' menu item is highlighted with an orange circle labeled '1'. The 'POS Settings' page has two tabs: 'Automated' and 'Manual'. The 'Automated' tab is selected, and the 'Enable automated FTP import' checkbox is checked, indicated by an orange circle labeled '2'. The form fields for configuring the FTP/SFTP connection are outlined with an orange box labeled '3'. These fields include: 'Protocol' (ftp or sftp), 'FTP Server' (Hostname or IP address), 'Port number' (0), 'Username' (Username), 'Password' (Password), and 'Data files directory' (Folder Name). An orange circle labeled '4' points to the 'FTP Server' field. At the bottom right of the form, there are 'Save' and 'Cancel Changes' buttons, with an orange circle labeled '5' pointing to the 'Save' button.

### / Protocol

Type in the customer's server protocol e.g. ftp or sftp

### / FTP Server

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

### / Port Number

The FTP or SFTP server port number

### / Username

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

### / Password

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

### / Folder Name

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

## 2. 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.

VIDEO ANALYTICS  
AS-A-SERVICE

Monitoring >  
Recording >  
Video Analytics >  
Reports >  
Admin Settings >  
User Management  
Role Management  
Device Management  
Device List  
Periodic Report Management  
POS Management (1)  
My Licenses  
Label Management >  
Notification Management >

POS Setting (2)

Automated Manual

Labels City Hall (3) Filter

Start Date/Time End Date/Time

Period 15/09/2016 00:00 15/09/2016 23:59 (4)

Edit (5)

DateTime Number of Receipts Sales Amount

Page 0 of 0 15 items per page No items to display

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Import Sales Data

(2) Then click Save

Save Changes Cancel Changes

Learn how to setup automatic import

DateTime	Number of Receipts	Sales Amount
15/09/2016 01:00:00	0	0
15/09/2016 02:00:00	0.00 (1)	0
15/09/2016 03:00:00	0	0
15/09/2016 04:00:00	0	0
15/09/2016 05:00:00	0	0
15/09/2016 06:00:00	0	0
15/09/2016 07:00:00	0	0
15/09/2016 08:00:00	0	0
15/09/2016 09:00:00	0	0
15/09/2016 10:00:00	0	0
15/09/2016 11:00:00	0	0
15/09/2016 12:00:00	0	0
15/09/2016 13:00:00	0	0
15/09/2016 14:00:00	0	0
15/09/2016 15:00:00	0	0

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# POS Data Co-relation in People Counting Report

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

