

IPAS Analytics 3.0

Guidebook

2019-5-20

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IPAS 3.0 Product Introduction

IPAS 3.0 system is our latest platform to analysis bus passenger traffic based on station recognition. It also offers the very powerful tool to manage passenger counters online in office.

Powerful

- ❖ Support 1,000buses in a standard dedicated cloud server. Save great cost on it.
- ❖ Mature user access management for safety.
- ❖ Only need 1/10 labour to control all bus fleets
- ❖ Online GPS tracking with passenger data in the map
- ❖ Live route tracking with passenger data in station list.
- ❖ Realtime device status checking to monitor every details of counter.
- ❖ Remote upgrading firmware without waiting bus stop running.
- ❖ One-click to download all history records in the counter.
- ❖ Easily shift buses into new lines for better income.
- ❖ Rich alarm alerts and analysis
- ❖ H5 for mobile phone and computer anywhere
- ❖ Share next bus arriving data to passengers to help attract more ticket income
- ❖ Remote configure counter(coming)

Automatically

Same as a moving transformer, the system has many unique designs to save users amazing days on use of such system, for example, automatically upload counting records and summary, collect station GPS data, online modify station position and name for all lines, online update new station list , into counters in running buses. The running buses has made many big changes even it never stop.

Customization

- ❖ Fast translation for any other languages
- ❖ DIY your interface UI with your own brand and title and color
- ❖ Open database visit for your own platform
- ❖ Others

Remarks:



- ❖ Please use chrome browser for best experience
- ❖ Google map API for payment if there are many buses
- ❖ Please change password after new account is signed at the first time. Password should be well remembered in papers.

Cloud Server Deployment

Hardware Requirement	
OS	Windows Server 2008, 2012,
CPU	> 2.33GHz, 64bits
Network	>5Mbs (External), 10/100Mbs network adaptor
RAM	4G/8GB
Storage	<100buses, 120GB; >1000buses, 1TB

Software Requirement	
Database	Mysql 5.7
Remote	RDP, Teamviewer
IPAS Copy	IPAS 3.0
Ports Open:	80, 8900, 5005 (Both TCP-UDP)
Fixed Public IP:	Required
Domain:	Supported DNS server

Disclaimer

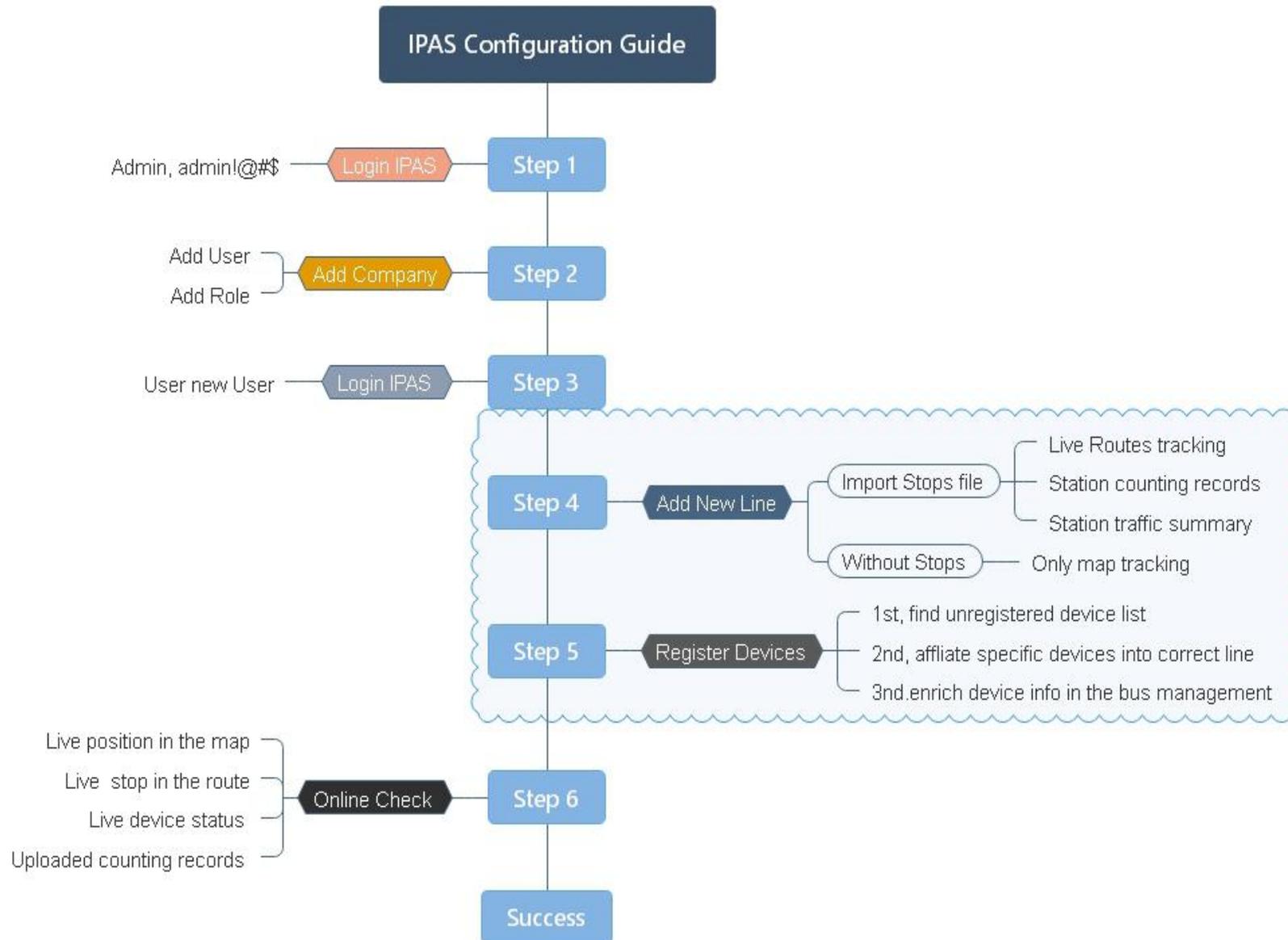
The content in this manual may be different from the software version in your computers. If you are unable to resolve a problem while the system installation or operation, please contact our technical support team or your supplier. The contents of this manual will be updated all the time when the software is upgrading. We reserve all rights to fail to give notification for changes.

The company does not assume any responsibility or any liability, loss or risk, direct or indirect outcome from the use or application of any of the contents of this document arising from any inaccuracies or omissions in this document.

This manual may contain screen shots used in day-to-day operations, the reporting, person and company names may be fictitious. Any similarity in the name and address of the company or an individual in reality is purely coincidental.

Any deleted data may hardly recover, so please carefully delete your account, buses, lines and companies. The company not promise any recovered service for free. Users should well backup all your data before you make new changes or system operation.

Configuration Steps Map



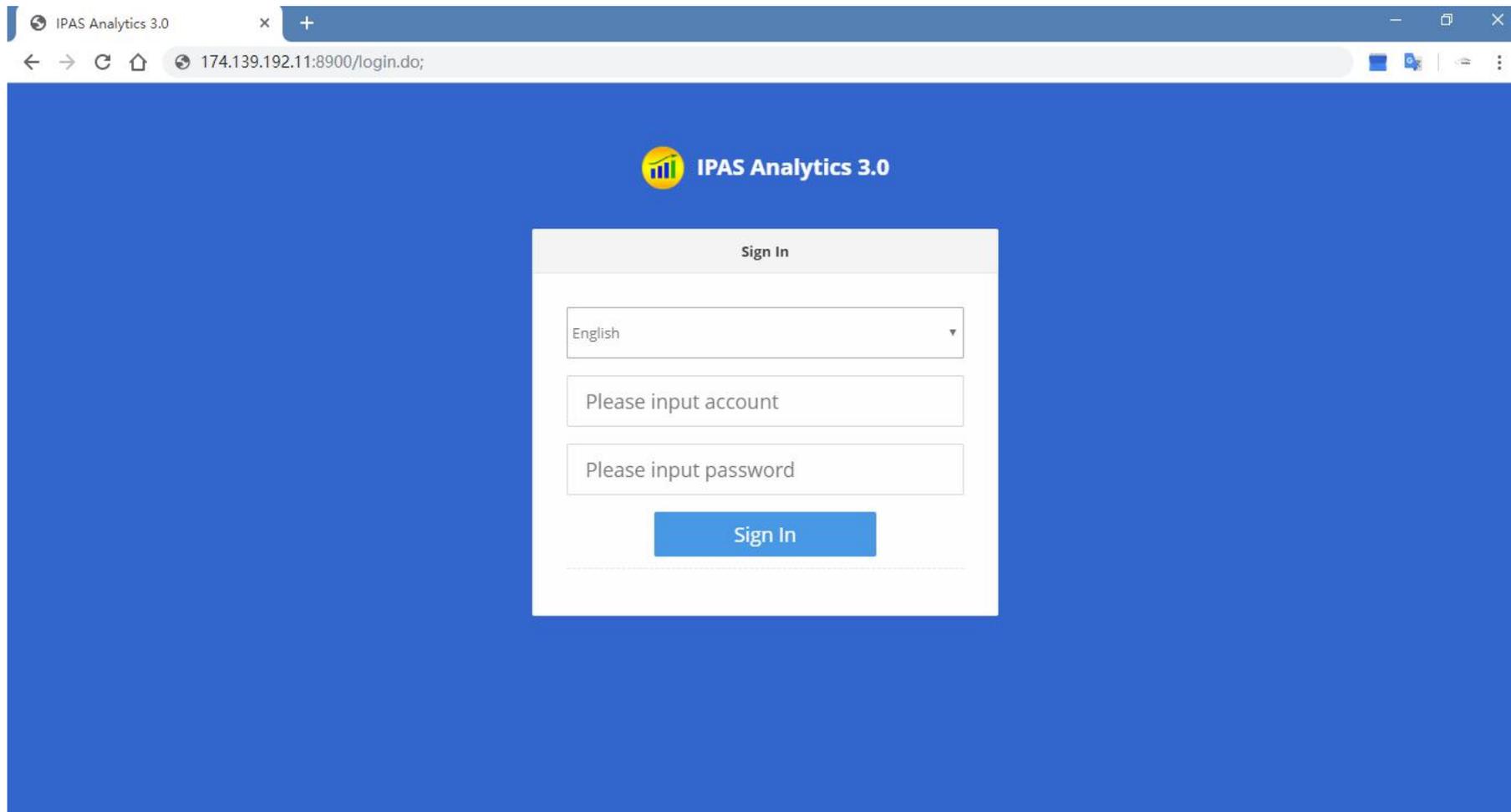
Step 1: Login IPAS Analytics 3.0

1. Login Page

User can choose correct language to visit.

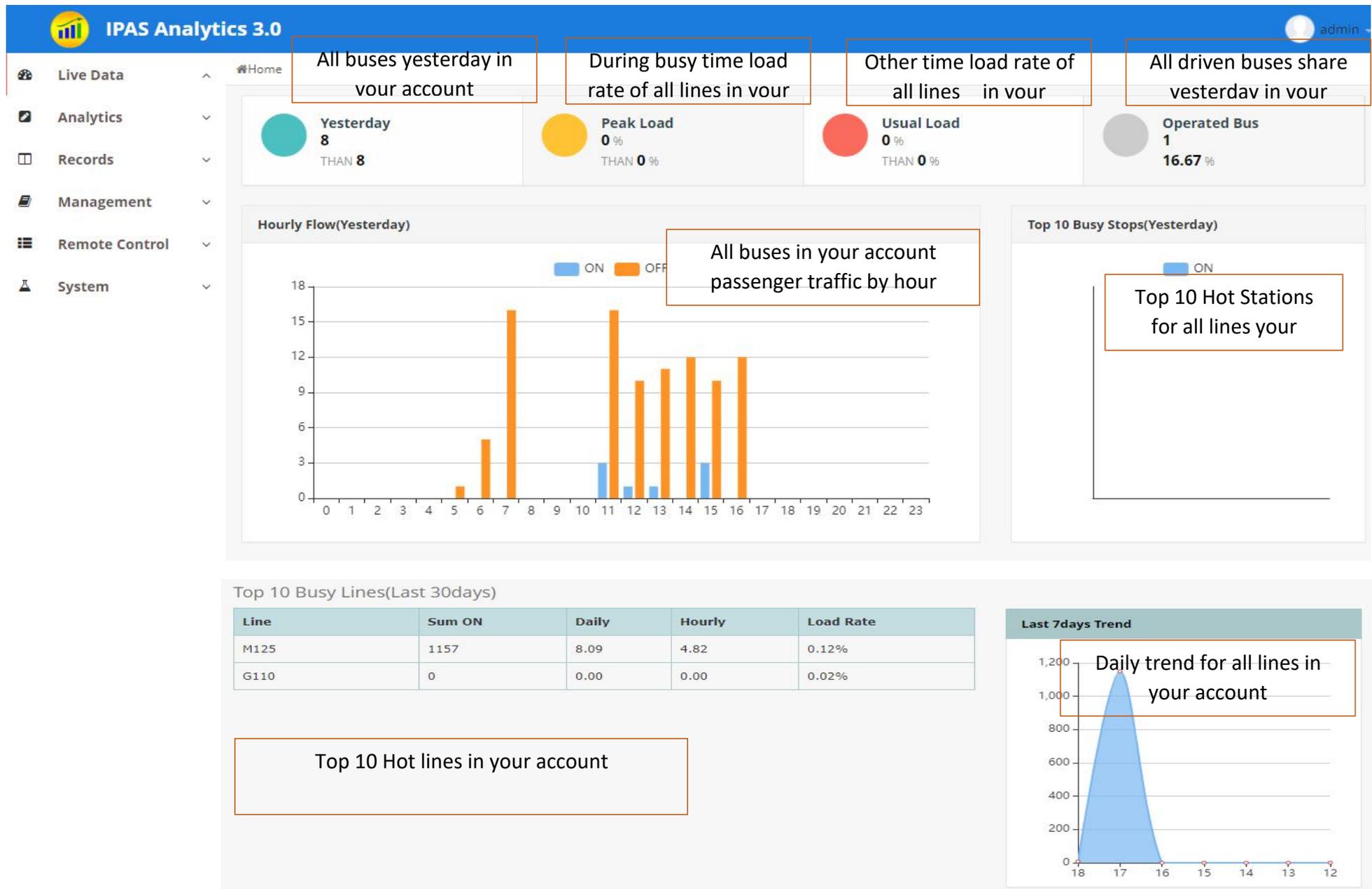
After your new server is installed well. You can login with localhost:8900

Default user: [admin](#), password: [admin!@#\\$. Other new created passwords are 123456. Password can not restored, but can be modified by administrators.](#)



2. Home-Dashboard.

You can learn important summary history traffic easily.



Step 2: Add Company & Users

1. Add Company:

Register a new company account.

The screenshot shows the IPAS Analytics 3.0 interface. The top navigation bar is blue with the IPAS logo and the text 'IPAS Analytics 3.0'. On the right, there is a user profile icon labeled 'admin'. The left sidebar contains a menu with items: Live Data, Analytics, Records, Management, Remote Control, System (highlighted), Company (selected), Users, Access, and Roles. The main content area shows the 'Company' management page with a breadcrumb trail 'Home / System / Company'. At the top of the main area is a search bar with the text 'Company' and a 'Search' button. Below the search bar are two buttons: '+ Add' and 'Modify'. A table displays the following data:

<input type="checkbox"/>	Company	City	Contact	Telephone	Line Qty	Bus Qty	Created
<input type="checkbox"/>	Giovany	unknow	Giovany		10	10	2019-05-14 10:00:15
<input type="checkbox"/>	Watchdog	Shenzhen	Mike		10	10	2019-05-13 18:36:45

Below the table, it says 'showing 1-2 of 2 items'. At the bottom right of the table area, there are pagination controls: 'First', 'Previous', '1' (highlighted), 'Next', and 'Last'. At the bottom left of the page, there is a small blue box containing the text 'iavascrpt:void(0)'.

Remarks:

- ❖ Register company info. All fields had better to fill.
- ❖ Line qty and bus qty is for counting some data.
- ❖ Contact person will not be login account.

A screenshot of a registration form with the following fields and labels:

Company	Required
City	
Contact	
Telephone	
Line Qty	Required
Bus Qty	Required

At the bottom right of the form, there are two buttons: "Close" and "Save".

2. Add User

Before you create a new account for this new company, you should add a new role with different access far from administrator, if you have same roles, you can directly choose existed one.

Roles Management: Find correct level account with different demands

The screenshot shows the IPAS Analytics 3.0 interface. The top navigation bar is blue with the IPAS logo and the text "IPAS Analytics 3.0". On the right side of the bar, there is a user profile icon labeled "admin". A left sidebar contains a menu with items: Live Data, Analytics, Records, Management, Remote Control, System (highlighted), Company, Users, Access, and Roles. The main content area shows the breadcrumb "Home / System / Roles". Below the breadcrumb, there is a search box labeled "Role" and a "Search" button. Underneath are two buttons: "+ Add" and "Authorize". A table displays the following data:

<input type="checkbox"/>	Role	Key	Status	Remarks
<input type="checkbox"/>	Administrator	admin	0	Administrator

At the bottom of the table area, it says "showing 1-1 of 1 items" and includes pagination controls: "First", "Previous", "1" (selected), "Next", and "Last".

3. Add A New Role

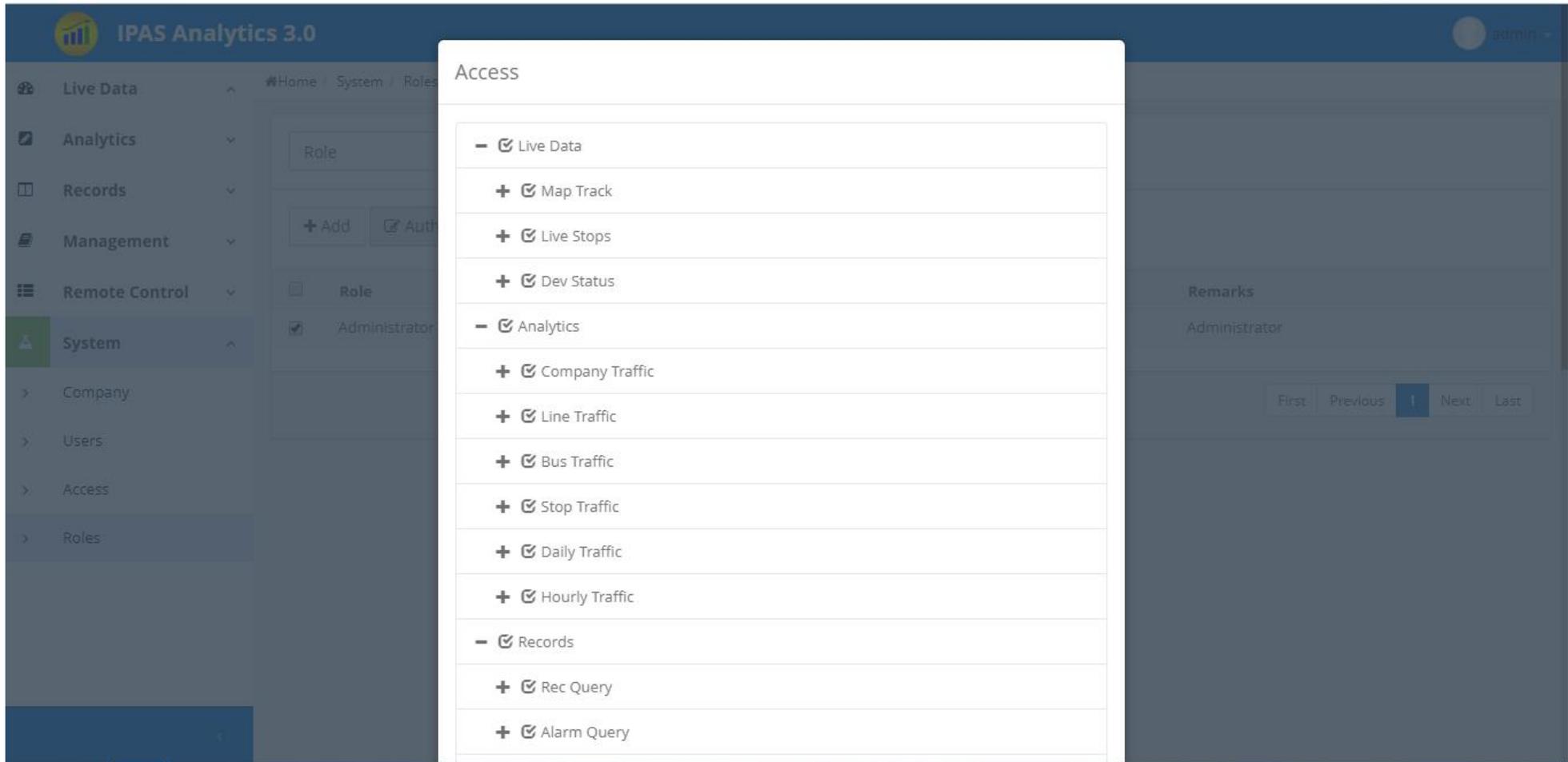
✕

Role	Required
Key	Required
Status	Valid ▼
Remarks	

Close Save

4. Authorize Role:

Control this type of users with specific access control for specific functions and pages.



5. Add a new User.

The screenshot shows the IPAS Analytics 3.0 user management interface. The top navigation bar is blue with the IPAS logo and the text "IPAS Analytics 3.0". On the right side of the bar, there is a user profile icon labeled "admin".

A left-hand sidebar contains a menu with the following items: Live Data, Analytics, Records, Management, Remote Control, System (highlighted in green), Company, Users (highlighted in orange), Access, and Roles.

The main content area is titled "Home / /" and contains a search bar with the label "Full Name" and a "Search" button. Below the search bar are two buttons: "+ Add" and "Modify".

The central part of the interface is a table with the following columns: Full Name, Account, Created, Role, and Remarks. The table contains three rows of user data:

<input type="checkbox"/>	Full Name	Account	Created	Role	Remarks
<input type="checkbox"/>	giovany	giovany	2019-05-14 10:02:32	Administrator	
<input type="checkbox"/>	demobus	demobus	2019-05-13 18:37:14	Administrator	
<input type="checkbox"/>	admin	admin	2016-10-21 07:56:13	Administrator	des

At the bottom of the table, there is a pagination control showing "showing 1-3 of 3 items" and buttons for "First", "Previous", "1" (the current page), "Next", and "Last".

Remarks

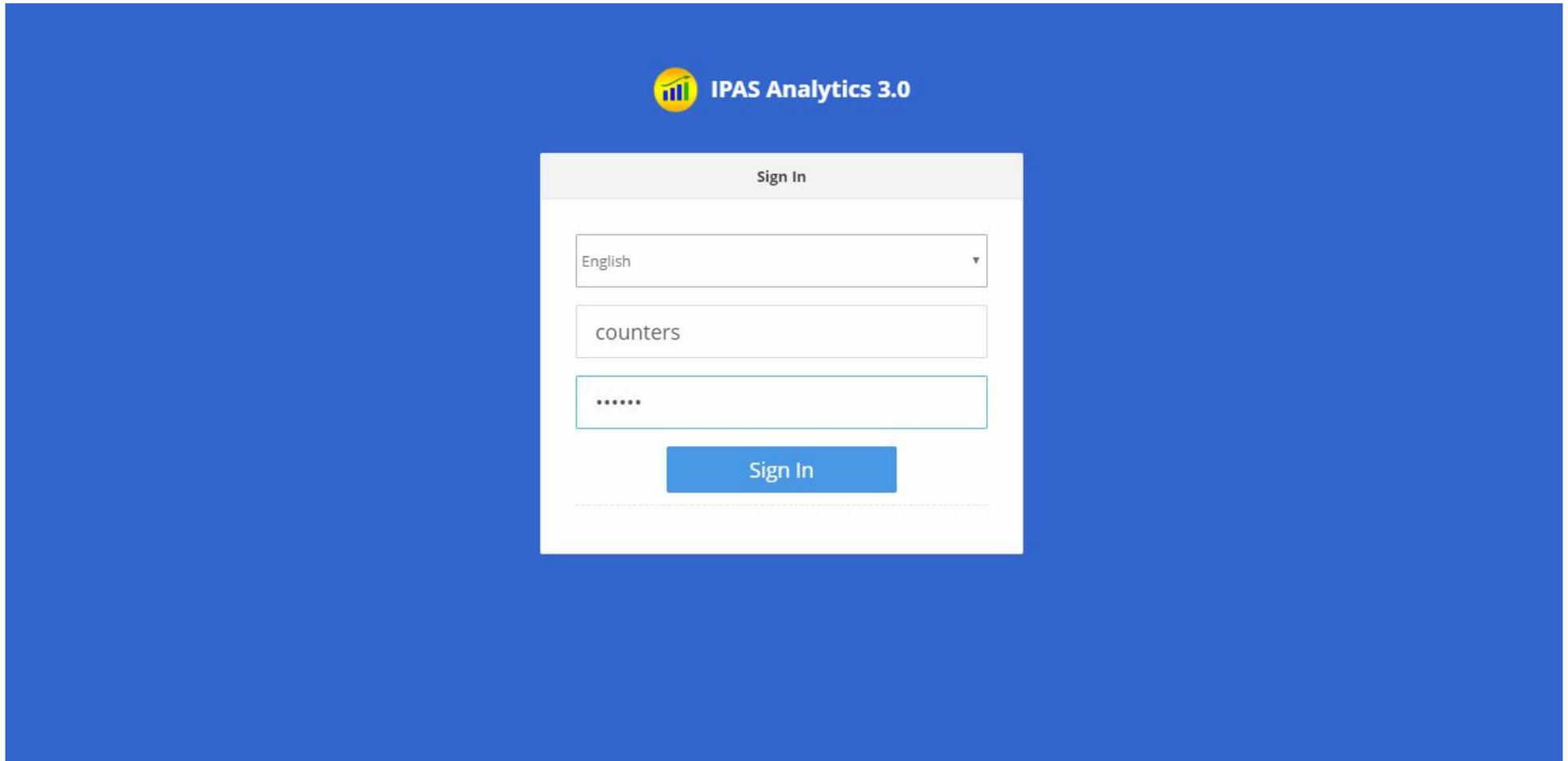
- Default password for new account: 123456.
- Role must be chosen.
- Company must be chosen too.

✕

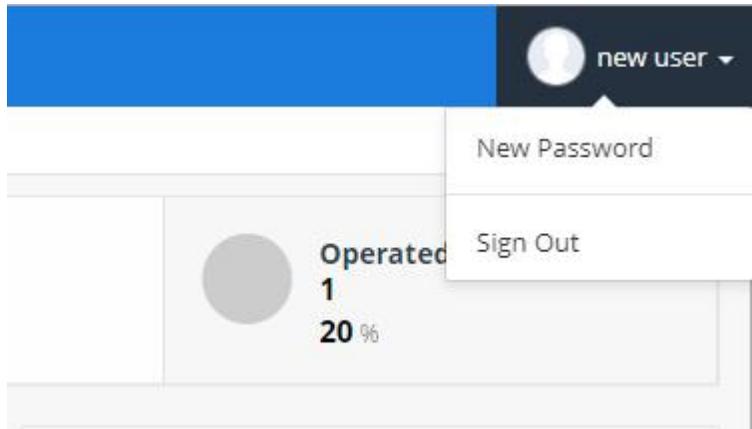
Full Name	Required
Account	Required
Password	<div style="background-color: #f0f0f0; padding: 2px;">.....</div> <p style="font-size: 0.8em; margin-top: 5px;">Default password is 123456</p>
Role	
Status	Enable ▼
Company	Giovany ▼
Remarks	

Close
Save

Step 3: Login IPAS with New Account



Modify Password:



Click New Password:

A screenshot of a 'Modify' dialog box. The title bar says 'Modify' with a close button (x) on the right. The dialog contains two input fields: 'New Password' and 'Confirm'. At the bottom right, there are two buttons: 'Close' and 'Save'.

Step 4: Add a new Line

Add line is the top important to register counters to be buses in our IPAS3.0 system. It will collect both line info, route, stops and orders and other information. Bus line including all important information for bus company and passengers. Users had better to fill all information.

The screenshot displays the IPAS Analytics 3.0 interface. The top navigation bar includes the logo and the text "IPAS Analytics 3.0" on the left, and a user profile icon labeled "new user" on the right. A sidebar on the left contains a menu with categories: Live Data, Analytics, Records, Management (highlighted), Remote Control, and System. Under Management, sub-items include Line, Devices, Buses, Stops, and Alarms. The main content area shows the breadcrumb "Home / Management / Line" and a search bar with fields for "Line", "From", "To", "Contact", and a "Search" button. Below the search bar are buttons for "+ Add", "Modify", "Delete", "Import", and "Export". A table lists bus lines with columns: Line, Company, Start, To, Contact, Service Time, Created, and Stop List. Two lines are visible: E25 (Watchdog, 望成大厦 to 睿味源农庄) and M125 (Watchdog, A to E). Each line has a "Detail" button. At the bottom, a pagination bar shows "showing 1-2 of 2 items" and navigation buttons: First, Previous, 1 (selected), Next, Last.

Line	Company	Start	To	Contact	Service Time	Created	Stop List
E25	Watchdog	望成大厦	睿味源农庄				Detail
M125	Watchdog	A	E				Detail

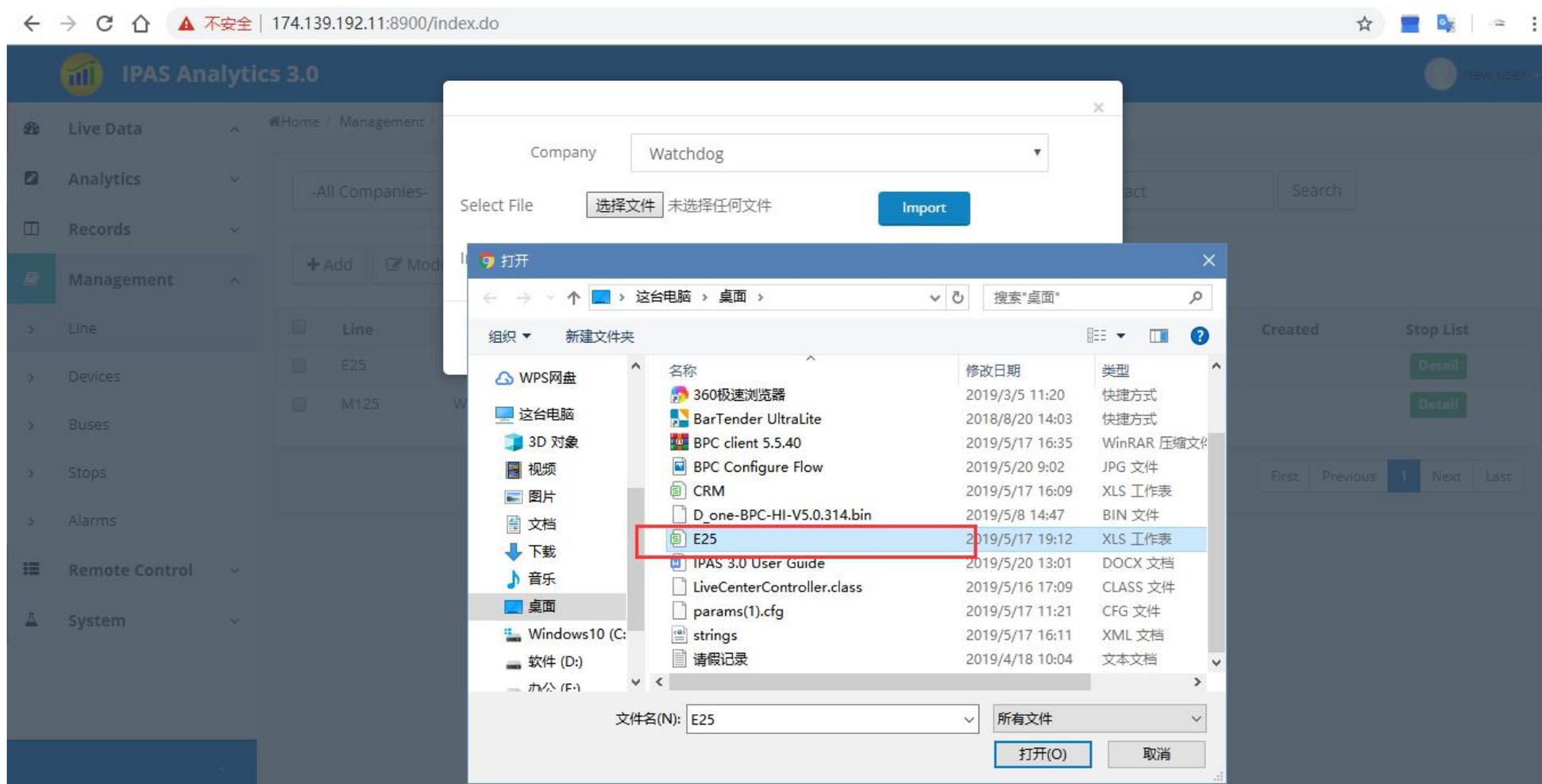
1. Create a new line without stops

Line	Required
Company	Watchdog ▼
Start	1 st Departing Station in UP direction
End	Destination Station in UP direction
Charger	Contact Person
Trip Time(Min)	1 Round Trip Time: from 1 st station return the same station
Trip Mileage(KM)	Required 1 Round Trip Km
Headway(Min)	Required Two bus departing interval time
Running(Range)	eg: 05:00-22:00 Daily Service Time

Close
Save

2. Import Station File.

This is the most important step to use IPAS 3.0 system with advanced analysis on stations. Otherwise you can not use some functions relative stations.



3. About Station File

Remarks: Sample File Content of Station File

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Route Name	Stop Name	Station ID	Order	Direction	Type	Long	Lat	Azimuth	LimitSpeed	Distance	SoundIn	SoundOut	
2	M125	A	3000	1	1	1	114.033	22.67994	100	50	60			
3	M125	B	3001	2	1	3	114.0295	22.67517	100	50	60			
4	M125	C	3002	3	1	3	114.026	22.67263	100	50	60			
5	M125	D	3003	4	1	3	114.0219	22.66954	100	50	60			
6	M125	E	3004	5	1	3	114.0188	22.66721	100	50	60			
7	M125	E	3041	1	2	3	114.0188	22.66721	100	50	60			
8	M125	D	3042	2	2	3	114.0219	22.66954	100	50	60			
9	M125	C	3043	3	2	3	114.026	22.67263	100	50	60			
10	M125	B	3044	4	2	3	114.0295	22.67517	100	50	60			
11	M125	A	3045	5	2	2	114.033	22.67994	100	50	60			
12														
13														

Station File Editing Rules:

1. Format: xls

2. File Name: must be Line name. It can be letter+numbers.

3. Station Orders: UP: Departing Stop (Order=1, Type=1) to Destination Stop (Order=N, Type=2),
Down: Departing Stop (Order=1, Type=1) to Destination Stop (Order=N, Type=2)
Other stops type=3.

Remark: The final stop of UP list, will be same location as the 1st stop of Down list. But 1st Stop of DOWN list, its order must be 1. Then stop by stop in order.

4. Running Direction: UP:1, DOWN:2.

5. Station ID: **Must be unique. The same station name A in direction down, should use different station id.**

Station Name: **Must be unique.** Some hot stations can use Coffee 1, Coffee2, Coffee 3.

6. GPS info: GPS location info can be collected online by IPAS. However, the bus must be parked every station only, and open and close the door, no matter has passengers or not.

7. Azimuth: It must be written well to judge running direction. The difference of azimuth usually is 180° between UP and DOWN stations, if their station name is same. It also can be get from IPAS.
8. Limit Speed: Speed limited along the road. It can be different according to different roads.
9. Distance: not available now.
10. Soundin and Soundout: When bus arriving station or leaving station, it can broadcast station info with other TTS device. Here can be null.
11. This file is to edit only. Never delete any column.
12. This station file can be imported into IPAS and BPC at the same time. IPAS can update device station info remotely.
13. People counter must upgrade special firmware V5.0.300, or above version to enable this feature.

Station list

After importing station file, you can see the grid about the station list.

x

Up	Station	Down	Station
1	A	5	A
2	B	4	B
3	C	3	C
4	D	2	D
5	E	1	E

Step 5: Register Devices

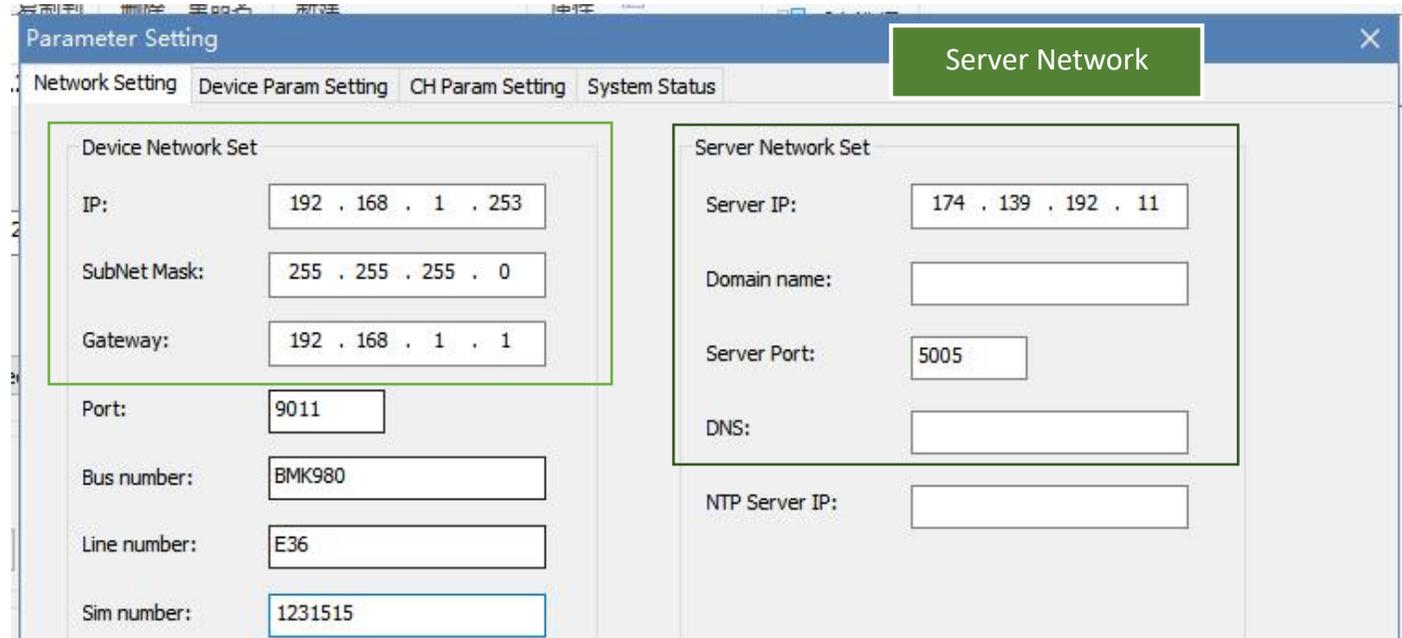
IPAS 2.0/3.0 offers the very convenient way to register counters into IPAS easily. Never remember IP or bus plates or lines relationships in your notebook, and spend a month to collect such information and have to install people counter slowly one by one. Now you can fast register it during counter installation with 1min, then the platform can receive the counter line and bus plate information. It also can collect counter firmware version, cameras ID and other useful information. Now with IPAS 3.0, you can quickly add over 1000buses within 1hour. It is impossible in other system.

The screenshot displays the IPAS Analytics 3.0 web interface. The top navigation bar is blue with the IPAS logo and the text 'IPAS Analytics 3.0'. On the right side of the bar, there is a user profile icon labeled 'admin'. Below the navigation bar, a sidebar on the left contains a menu with categories: Live Data, Analytics, Records, Management (highlighted), Remote Control, and System. Under 'Management', there are sub-items: Line, Devices (highlighted), Buses, Stops, and Alarms. The main content area shows a breadcrumb trail 'Home / Management / Devices' and a search interface with fields for 'Line', 'Bus', and 'Affiliate', and a 'Search' button. Below the search fields is a table listing registered devices. The table has columns for Line, Bus, MAC, SIM NO, Version, CH1, and CH2. Each row represents a device with a checkbox in the first column.

<input type="checkbox"/>	Line	Bus	MAC	SIM NO	Version	CH1	CH2
<input type="checkbox"/>	E1	Test4	78-a7-bd-b3-46-02	15920041149	D_one-BPC-HI-V5.0.157.bin	1.0-0012	1.0-0012
<input type="checkbox"/>	E1	Test13	48-30-a9-79-02-de	15920041158	D_one-BPC-HI-V5.0.157.bin	1.0-0048	1.0-0048
<input type="checkbox"/>	E1	Test19	82-4c-92-ae-e9-57	15920041164	D_one-BPC-HI-V5.0.157.bin	1.0-0072	1.0-0072
<input type="checkbox"/>	E1	Test18	56-cd-fb-1d-ed-9b	15920041163	D_one-BPC-HI-V5.0.157.bin	1.0-0068	1.0-0068
<input type="checkbox"/>	E1	Test14	84-b0-40-fa-0d-9a	15920041159	D_one-BPC-HI-V5.0.157.bin	1.0-0052	1.0-0052
<input type="checkbox"/>	E1	Test17	19-4e-44-9c-f1-df	15920041162	D_one-BPC-HI-V5.0.157.bin	1.0-0064	1.0-0064
<input type="checkbox"/>	E1	Test3	4c-17-06-22-4a-46	15920041148	D_one-BPC-HI-V5.0.157.bin	1.0-0008	1.0-0008
<input type="checkbox"/>	E1	Test8	4a-a4-58-d6-26-02	15920041153	D_one-BPC-HI-V5.0.157.bin	1.0-0028	1.0-0028
<input type="checkbox"/>	E1	Test11	ef-32-5c-68-1a-46	15920041156	D_one-BPC-HI-V5.0.157.bin	1.0-0040	1.0-0040
<input type="checkbox"/>	E1	Test6	d1-a5-0a-c4-3e-8a	15920041151	D_one-BPC-HI-V5.0.157.bin	1.0-0020	1.0-0020
<input type="checkbox"/>	E1	Test12	1b-b1-f3-f9-16-02	15920041157	D_one-BPC-HI-V5.0.157.bin	1.0-0044	1.0-0044

People Counter Connected: Before you can see the device mac in IPAS.

BPC Network



Computer Network

描述	Realtek PCIe GbE Family Controller
物理地址	70-54-D2-5E-EC-87
已启用 DHCP	否
IPv4 地址	192.168.1.111
IPv4 子网掩码	255.255.255.0
IPv4 默认网关	192.168.1.1
IPv4 DNS 服务器	192.168.1.1
IPv4 WINS 服务器	
已启用 NetBIOS over Tc...	是
IPv6 地址	240c:fd5c:4:4b00::1

1. Affiliate Bus:

Quick affiliate selected Buses into their line. Without correct line, you need to create it first.

The screenshot shows the IPAS Analytics 3.0 Management interface. A modal dialog is open for editing an affiliate bus. The dialog has two dropdown menus: 'Company' and 'Line'. The 'Company' dropdown is set to 'Watchdog'. The 'Line' dropdown is open, showing options: '-All Lines-', '-All Lines-M125', and 'E25'. The 'E25' option is highlighted in blue. There are 'Close' and 'Save' buttons at the bottom right of the dialog. In the background, a table lists various bus entries with columns for Line, B, ID, MAC, IP, and CH1/CH2.

Line	B	ID	MAC	IP	CH1	CH2
E1	Test4	78-a7-bd-b3-46-02	15920041149	D_one-BPC-HI-V5.0.157.bin	1.0-0012	1.0-0012
E1	Test13	48-30-a9-79-02-de	15920041158	D_one-BPC-HI-V5.0.157.bin	1.0-0048	1.0-0048
E1	Test19	82-4c-92-ae-e9-57	15920041164	D_one-BPC-HI-V5.0.157.bin	1.0-0072	1.0-0072
E1	Test18	56-cd-fb-1d-ed-9b	15920041163	D_one-BPC-HI-V5.0.157.bin	1.0-0068	1.0-0068
E1	Test14	84-b0-40-fa-0d-9a	15920041159	D_one-BPC-HI-V5.0.157.bin	1.0-0052	1.0-0052
E1	Test17	19-4e-44-9c-f1-df	15920041162	D_one-BPC-HI-V5.0.157.bin	1.0-0064	1.0-0064
E1	Test3	4c-17-06-22-4a-46	15920041148	D_one-BPC-HI-V5.0.157.bin	1.0-0008	1.0-0008
E1	Test8	4a-a4-58-d6-26-02	15920041153	D_one-BPC-HI-V5.0.157.bin	1.0-0028	1.0-0028
E1	Test11	ef-32-5c-68-1a-46	15920041156	D_one-BPC-HI-V5.0.157.bin	1.0-0040	1.0-0040
E1	Test6	d1-a5-0a-c4-3e-8a	15920041151	D_one-BPC-HI-V5.0.157.bin	1.0-0020	1.0-0020
E1	Test12	1b-b1-f3-f9-16-02	15920041157	D_one-BPC-HI-V5.0.157.bin	1.0-0044	1.0-0044

1. Enrich Bus Info

Enrich bus information for better experience.

IPAS Analytics 3.0 admin

Home / Management / Buses

-All Companies- -All Lines- Plate NO. MAC Driver Phone Search

Modify Delete

<input type="checkbox"/>	Plate NO.	SIM	MAC	Company	Line	Max Load	Driver	Phone	Network	Realtime
<input type="checkbox"/>	116 SZQ886	0□□□üö	26-61-1a-c3-36-9c	Giovany	G110	100			Offline	Status
<input type="checkbox"/>	APC		8a-80-bf-a4-28-07	Watchdog	M125	100			Online	Status
<input type="checkbox"/>	Test7	15920041152	1d-24-a1-45-3a-46	Watchdog	M125	100			Online	Status
<input type="checkbox"/>	BPC-274-VRATA_3	üö	3e-af-6c-6f-cf-78	Watchdog	M125	100			Online	Status
<input checked="" type="checkbox"/>	Test1	15920041146	d3-19-b9-21-52-be	Watchdog	E25	100			Online	Status
<input type="checkbox"/>	Test9	15920041154	76-23-0e-57-22-ce	Watchdog	E25	100			Online	Status
<input type="checkbox"/>	Test4	15920041149	78-a7-bd-b3-46-02	Watchdog	E25	100			Online	Status

showing 1-7 of 7 items

First Previous 1 Next Last

Max Load means: The valid passenger numbers, or the dangerous numbers.

Alert Load: When passenger higher than this value, you will get alert overload.

×

Bus No	<input type="text" value="Bus Plate NO 123"/> ✓
Name	<input type="text"/>
Line	<input type="text" value="E25"/> ▼
CH1	<input type="text" value="1.0-0000"/>
CH2	<input type="text" value="1.0-0000"/>
Version	<input type="text" value="D_one-BPC-HI-V5.0.157.bin"/>
Max Load	<input type="text" value="100"/>
Alert Load	<input type="text" value="80"/> ✓
Driver	<input type="text"/>
Phone	<input type="text"/>
Remarks	<input type="text"/>

Step 6. Success



Now all buses are added well and running in the server yet. Now you can browse every analysis traffic for every company, line, bus and station, or remote control the devices.

IPAS 3.0 Function Pages Guide:

Zone	Functions	Function Description
A. Live Data	1. Map Track	Tracking your buses in map with current passenger counting data
	2. Live Stops	Locate your buses in every route with current passenger data
	3. Dev Status	List all your buses in grid with current passenger data, also learn device status
B. Records	1. Record Query	Original history records uploaded by counter
	2. Alarm Query	IPAS collected alarm records in every type
	3. Alarm Static	Alarm summary to analysis line management level
C. Analytic	1. Company	Analysis all or specific company traffic in different period
	2. Line	Analysis specific line traffic in different period, show line efficiency
	3. Bus	Analysis specific bus traffic in different period to show bus efficient
	4. Stop	Analysis specific station traffic in different period to learn stop popularity
	5. Daily	Daily traffic for any company, line, bus, stop in selected period
	6. Hourly	Hourly traffic for any company, line, bus, stop in selected period for peak and free analysis
D. Remote Control	1. Dev Upgrade	Remote upgrading people counter firmware
	2. Stops Update	Remote update route and stops data

A. Checking Real-time Data

1. Map Tracking

The map only show where every bus of this line located. So all buses will be shown after you choose specific line. You can know its movement and position now.

Please choose specific line name first, otherwise nothing is shown.

The screenshot shows the IPAS Analytics 3.0 interface. The top navigation bar includes the IPAS logo and the text "IPAS Analytics 3.0" on the left, and a user profile icon labeled "admin" on the right. A sidebar on the left contains a menu with categories: Live Data (with sub-items: Map Track, Live Stops, Dev Status), Analytics, Records, Management, Remote Control, and System. The main content area is titled "Home / Live Data / Map Track". It features a search bar with "E25" entered and a "Search" button. Below the search bar, it says "Current: E25". The central part of the interface is a map showing a city street grid. A blue bus icon is visible on the map, with a tooltip popup displaying the following information: "Dev Time: 2019-05-20 14:18:29", "Direction: up", "Bus NO.: Test4", "Onboard: 0", "Total On: 0", and "Total Off: 0". The map also shows various landmarks, including banks (e.g., 交通银行, 中国农业银行), hotels (e.g., 龙泉酒店, 水都假日酒店), and other points of interest. The map is overlaid with a grid and includes standard map controls like zoom in (+) and zoom out (-) buttons.

You can drag the map or zoom+/- so that you can see more buses.

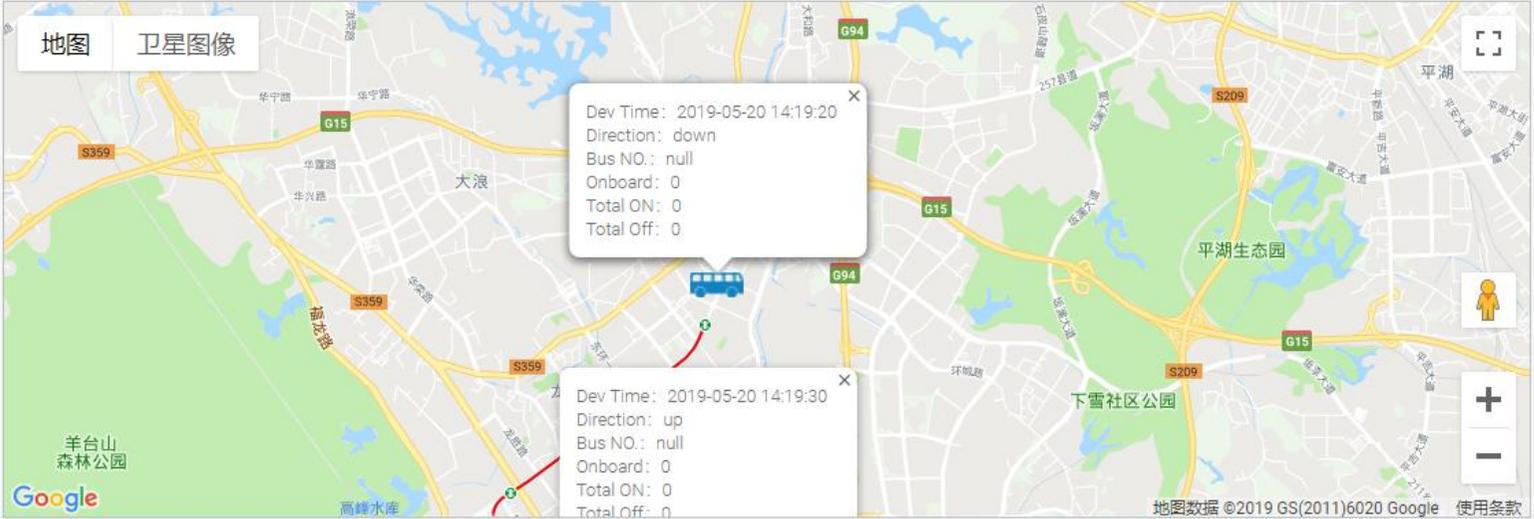
 IPAS Analytics 3.0
admin ▾

Home / Live Data / Map Track

E25 ▾
Search

Current: E25

地图
卫星图像



✕
 Dev Time: 2019-05-20 14:19:20
 Direction: down
 Bus NO.: null
 Onboard: 0
 Total ON: 0
 Total Off: 0

✕
 Dev Time: 2019-05-20 14:19:30
 Direction: up
 Bus NO.: null
 Onboard: 0
 Total ON: 0
 Total Off: 0

2. Live Stops

Counter can recognize specific station name with GPS coordinate. After your import station file with csv into device offline, or update station files online by ipas, counter will send all counting records with station names automatically. IPAS will recognize the station order id and shown its position.

Bus company also can provide a basic Next Bus Service by this feature. Then attract more passengers with more incomes.

IPAS Analytics 3.0 admin

Home / Live Data / Live Stops

E25 Search

Current: Line Name:E25 Range:望成大厦-香味源农庄 Stop Qty:23

Start End

1 望成大厦
2 清湖市场
3 龙华汽车站
4 城市明珠
5 龙华分院
6 狮头村委
7 景乐市场
8 弓村
9 金榜花园
10 东环一路
11 第十工业区
12 油松派出所
13 松和小学
14 万众城
15 牛栏前
16 沙吓
17 水尾
18 东边
19 三阳头
20 大润发
21 新宝城酒店
22 清湖地铁站
23 香味源农庄

3. Device Status

Sometimes we must learn counter health, and learn basic information, if counter not have gps function or features. It offers a good way to learn what happen in the bus.

The screenshot shows the IPAS Analytics 3.0 interface. The top navigation bar is blue with the IPAS logo and the text 'IPAS Analytics 3.0'. On the right, there is a user profile icon labeled 'admin'. Below the navigation bar, there is a breadcrumb trail: 'Home / Live Data / Dev Status'. The left sidebar contains a menu with the following items: 'Live Data', 'Map Track', 'Live Stops', 'Dev Status' (highlighted), 'Analytics', 'Records', 'Management', 'Remote Control', and 'System'. The main content area features a search bar with the text 'E25' and a 'Search' button. Below the search bar is a table with the following data:

Direction	Date&Time	Station	Bus	On-board	SUM ON	SUM OFF	Load Rate	Status
Down	2019-05-20 14:22:23	大润发	Bus Plate NO 123	0	0	0	0.0%	Status
Down	2019-05-20 14:22:23	大润发	Test9	0	0	0	0.0%	Status
Up	2019-05-20 14:22:33	东边	Test4	0	0	0	0.0%	Status

Below the table, there is a pagination control showing 'showing 0-2 of 3 items' and buttons for 'First', 'Previous', '1', 'Next', and 'Last'. The '1' button is highlighted in blue. At the bottom left of the interface, there is a blue bar with a white arrow pointing left.

Click the status button  , you will see all important details to check its health online.

x

Geton/Getoff: **Device Time:**2019-05-05 11:51:22

Geton/Getoff:	Door1	Door2	Door3	Door4
ON	0	0	0	0
OFF	0	0	0	0

Total:

Sum ON	Sum OFF	Onboard
0	0	0

Position:

Longitude	Latitude	Speed	Azimuth
114.03426	22.64461	24	214

Station:

Crrent	Next	Type	Direction
13	14	3	1

Alarm:0000000000000000

Video Alarm	Door1	Door2	Door3	Door4
Video Loss	Loss	Loss	Loss	Loss
Video Block	Block	Block	Block	Block

Door:

--	--	--	--

B. Records

1. Record Query

To search or check or download specific records for any company, any line, any bus or any record type.

Excel can export all of your searched result within 10,000pcs.

The screenshot displays the IPAS Analytics 3.0 interface. The top navigation bar includes the IPAS logo and the user name 'admin'. The left sidebar contains several menu items: Live Data, Analytics, Records (highlighted), Rec Query, Alarm Query, Alarm Static, Management, Remote Control, and System. The main content area is titled 'Record Query: Get the original record for other integration and comparative verification.' Below this is a search form with the following fields: two date pickers (both set to 2019-05-20), a 'Today' dropdown, and several dropdown menus for '-All Companies-', '-All Lines-', '-All Buses-', '-All Stops-', and '-Rec Types-'. A 'Search' button is located to the right of these dropdowns. Below the search form is a green 'Excel' button. The main area contains a table with the following columns: Rec Time, Company, Line, Bus, Station, Lat|Lon, Direction, Azimuth, ON, OFF, On-board, Sum On, Sum Off, and Load Rate. The table contains several rows of data, including records for 'Watchdog' company, 'E25' line, and various bus types and stations.

Rec Time	Company	Line	Bus	Station	Lat Lon	Direction	Azimuth	ON	OFF	On-board	Sum On	Sum Off	Load Rate
2019-5-20 15:19:30	Watchdog	E25	Test4	三胆头	22.658709, 114.02348	Down	18	27	26	72	1413	1341	72%
2019-5-20 15:19:20	Watchdog	E25	Bus Plate NO 123	东环一路	22.654907, 114.02583	Down	345	36	35	81	1701	1620	81%
2019-5-20 15:19:20	Watchdog	E25	Test9	东环一路	22.654907, 114.02583	Down	345	36	35	81	1701	1620	81%
2019-5-20 15:19:20	Watchdog	M125	Test7		22.654907, 114.02583	Down	345	36	35	81	1701	1620	81%
2019-5-20 15:18:29	Watchdog	E25	Test4	大润发	22.660543, 114.02614	Down	178	26	25	71	1386	1315	71%
2019-5-20 15:18:19	Watchdog	M125	Test7		22.651241, 114.02816	Down	146	35	34	80	1665	1585	80%
2019-5-20 15:18:19	Watchdog	E25	Bus Plate NO 123	第十工业区	22.651241, 114.02816	Down	146	35	34	80	1665	1585	80%

2. Alarm Query (Coming)

If users configured alarm rules for the specific line, then you can search the alarm record.

The screenshot displays the IPAS Analytics 3.0 interface. At the top, there is a blue header with the IPAS logo and the text "IPAS Analytics 3.0". On the right side of the header, there is a user profile icon labeled "admin".

Below the header is a sidebar with several menu items: "Live Data", "Analytics", "Records", "Management", "Remote Control", and "System". The "Records" menu item is currently selected and highlighted in green.

The main content area shows the "Alarm Query" section. At the top of this section, there is a breadcrumb trail: "Home / Records / Alarm Query". Below the breadcrumb, there is a text box containing the alert query: "Alert Query: Obtain original alarm records to ensure effective supervision of the fleet."

Below the text box, there is a search form with several filters:

- Date range: 2019-05-01 00:00:00 to 2019-05-20 23:59:59
- Type: Watchdog
- Line: E25
- Bus: Test4
- Alarm Type: -All Types- (This dropdown menu is open, showing a list of alarm types: Door Sensor, Video Loss, Video Block, SD Card Loss, No GPS Signal, Offline, Superspeed, Upgrade failure, Invalid Parking, Empty Bus, Low Load, Stop-Skip, Hot Station, Jam Traffic, Touble Bus, Overload)
- Search button

Below the search form, there is a table with the following columns: "Date & Time", "Type", "Line", "Bus", "GPS", and "Stop". The table is currently empty, and a message "showing 0-0 of 0 items" is displayed below the table.

3. Alarm Static.

Summarize every type of alarm frequency and times, to learn who troubles should you care most now.

IPAS Analytics 3.0

Home / Records / Alarm Static

Alarm Statics: Analysis alarm records summary to get more effective supervision of the fleet.

2019-05-20 2019-05-20 Today -All Companies- -All Lines- -All Types- Search

- All Types-
- Security
- Operate

Date	Company	Line	Type	Times	Days	Daily
showing 0-0 of 0 items						

4. Alarm Configuration (Coming)

IPAS Analytics 3.0 admin

Home / Management / Alarms

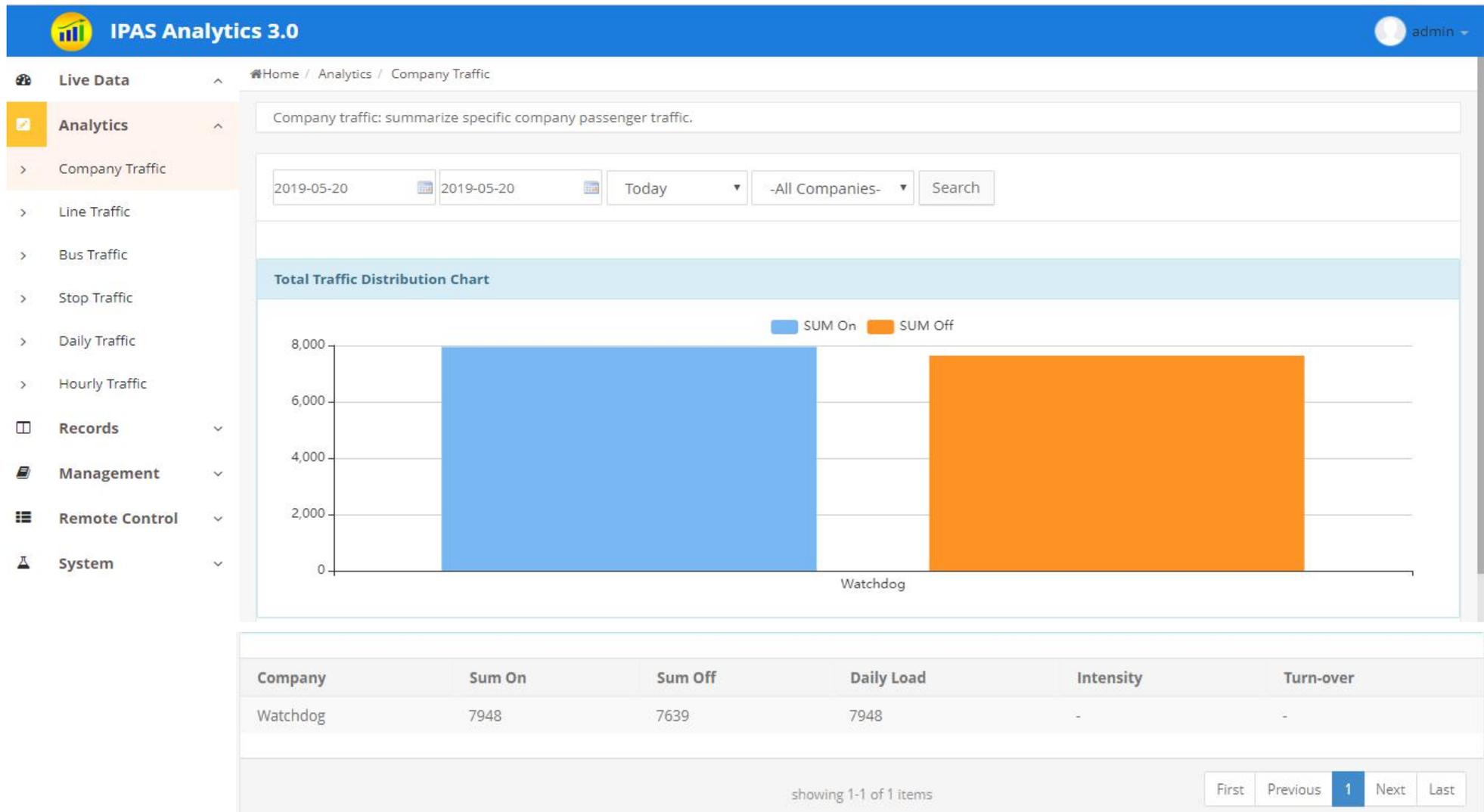
-All Companies- -All Lines- Search

Modify Copy To

Type	Status	Threshold	Unit	Duration(min)	Tag	Keyword
Door	Close	0		0	Security	Door Status Example
V-Loss	Close	0		1	Security	Video Loss Example
V-Block	Close	0		2	Security	Video Shield Example
SD Loss	Close	0		2	Security	SD Loss Example
GPS Loss	Close	0		2	Security	GPS Loss Example
Offline	Close	0		5	Security	Offline Example
Superspeed	Close	0	KM/H	3	Security	Superspeed Example
Fail upgrade	Close	0		0	Security	Upgrad fail Example
Invalid Park	Close	0	People	0	Operate	invalid park (cancelled) Example
Empty	Close	0	People	3	Operate	Empty bus Example
Low Load	Close	0	null	30	Operate	Low load Example
Stop-Skip	Close	0	Stops	0	Operate	Stop-skipping Example
Hot-Stop	Close	0	People	5	Operate	Busy Station Example
Jam-traffic	Close	0	KM/H	3	Operate	Traffic Jam Example

C. Analytic

IPAS 3.0 offer automatically data reports with charts, so you can get passenger traffic analysis result in all kinds of view angles.



 **IPAS Analytics 3.0**
admin

Home / Analytics / Line Traffic

Line traffic: summarize every line's passenger traffic.

2019-05-20 2019-05-20 Today -All Companies- -All Lines- Search

Traffic Distribution



Line	SUM On	SUM Off
M125	2070	2023
E25	5878	5616

Company	Line	Sum On	Sum Off	Daily Load	Intensity	Turnover Rate
Watchdog	M125	2070	2023	2070	-	-
Watchdog	E25	5878	5616	5878	-	-

First Previous 1 Next Last

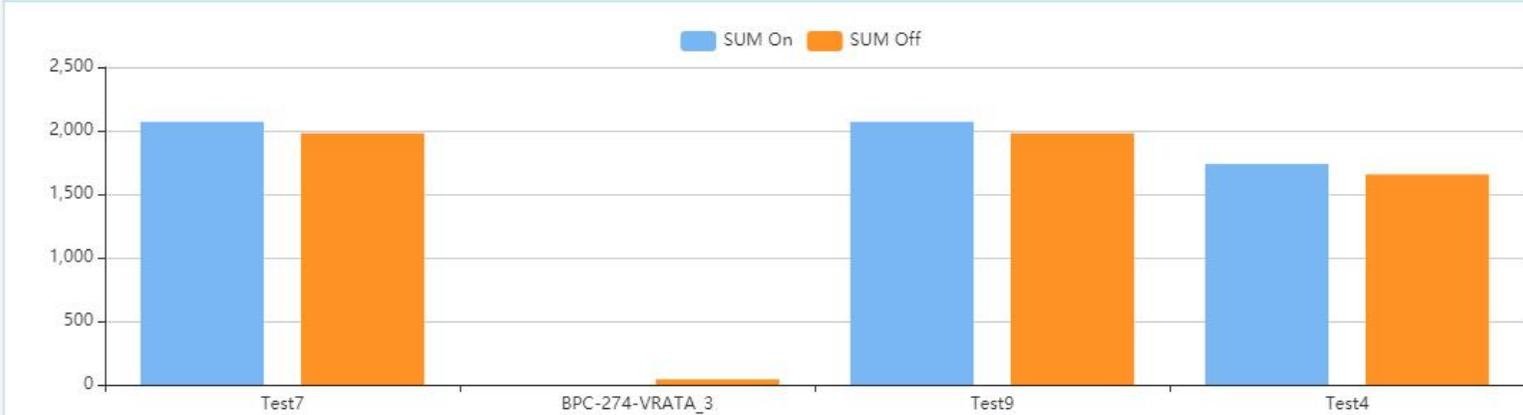
 IPAS Analytics 3.0
admin

Home / Analytics / Bus Traffic

Bus traffic: summarize every bus passenger traffic.

2019-05-20 2019-05-20 Today -All Companies- -All Lines- -All Buses- Search

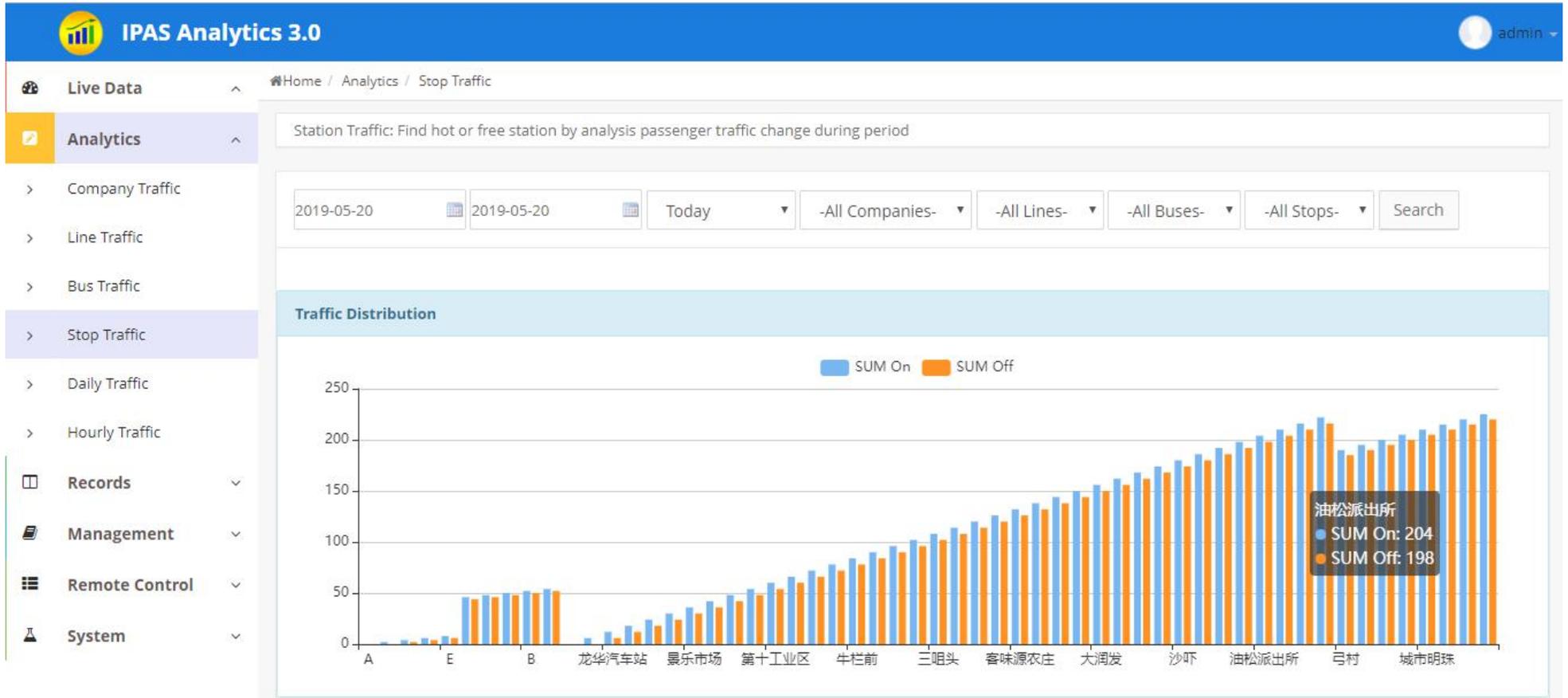
Traffic Distribution



Company	Line	Bus	Sum On	Sum Off	Daily Load	Intensity	Turn-over
Watchdog	M125	Test7	2070	1980	2070	-	-
Watchdog	M125	BPC-274-VRATA_3	0	43	0	-	-
Watchdog	E25	Test9	2070	1980	2070	-	-
Watchdog	E25	Test4	1738	1656	1738	-	-

showing 1-4 of 4 items

First Previous 1 Next Last



Station	Sum On	Sum Off	Daily Load	Intensity	Turn-over
A	0	0	0	-	-
B	2	0	2	-	-
C	4	2	4	-	-
D	6	4	6	-	-
E	8	6	8	-	-
E	46	44	46	-	-
D	48	46	48	-	-
C	50	48	50	-	-
B	52	50	52	-	-
A	54	52	54	-	-
望成大厦	0	0	0	-	-
清湖市场	6	0	6	-	-
龙华汽车站	12	6	12	-	-
城市明珠	18	12	18	-	-
龙华分院	24	18	24	-	-
狮头村委	30	24	30	-	-

showing 1-16 of 56 items

[First](#)
[Previous](#)
[1](#)
[2](#)
[3](#)
[4](#)
[Next](#)
[Last](#)



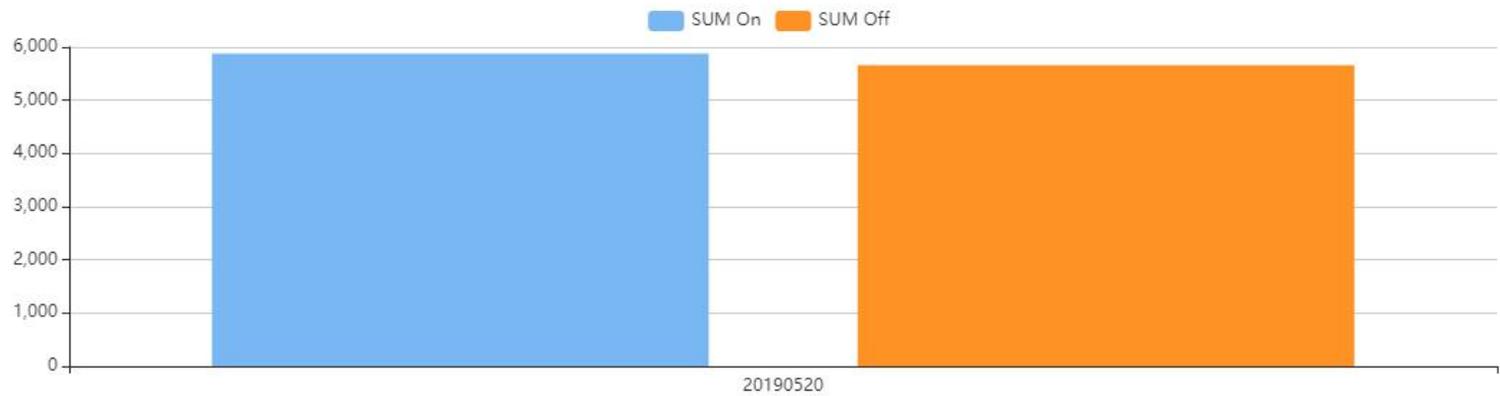
- Live Data
- Analytics**
- Company Traffic
- Line Traffic
- Bus Traffic
- Stop Traffic
- Daily Traffic**
- Hourly Traffic
- Records
- Management
- Remote Control
- System

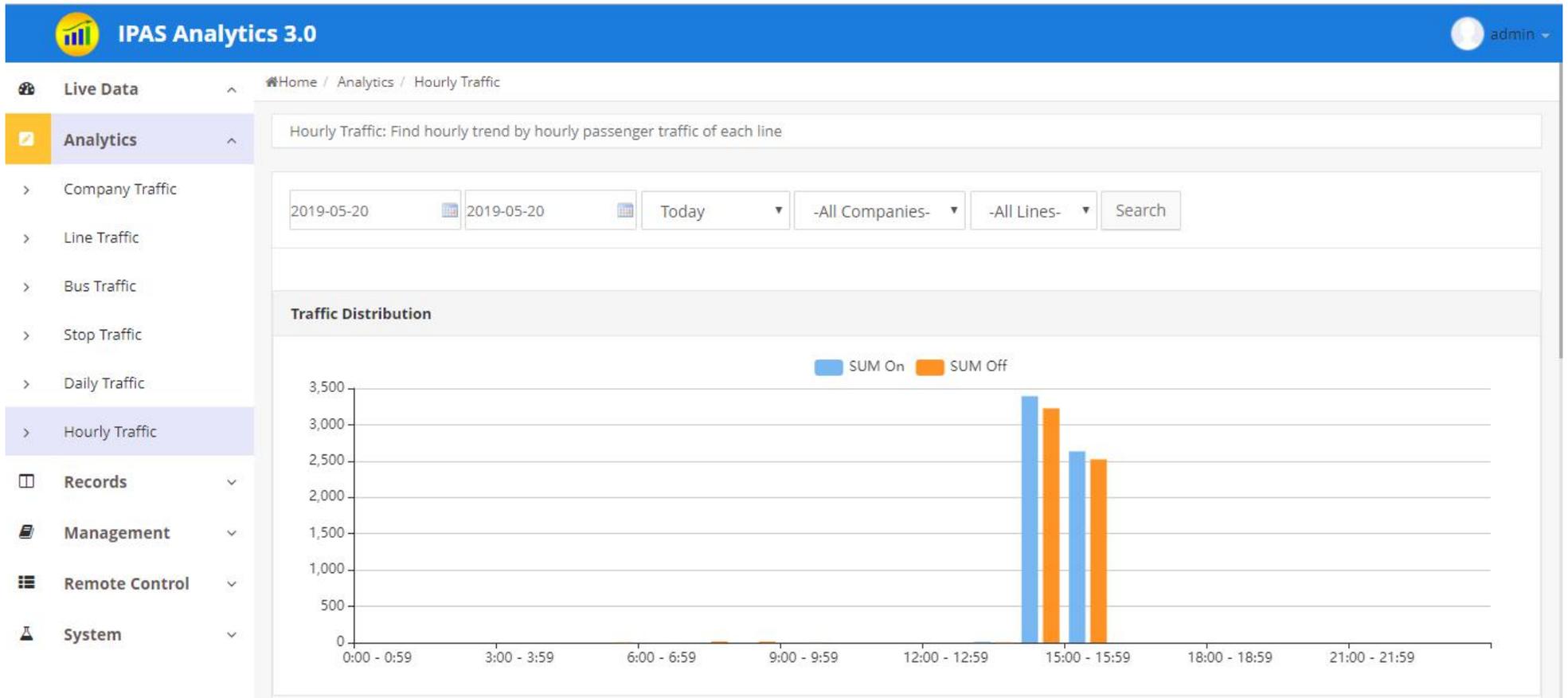
Home / Analytics / Daily Traffic

Daily traffic: summarize everyday total passenger traffic

2019-05-20 2019-05-20 Today -All Companies- -All Lines- -All Buses- -All Stops- Search

Traffic Distribution





8	0	15	0	0
9	0	4	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	12	6	1.5	0
14	3393	3225	32.9417	0
15	2633	2523	30.9765	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0

showing 0-23 of 24 items

[First](#)
[Previous](#)
[1](#)
[Next](#)
[Last](#)

Remote Control

1. Device Upgrade

Device Upgrade: Online upgrade firmware for all buses easily without local PC upgrade

-All Companies- -All Lines- Search

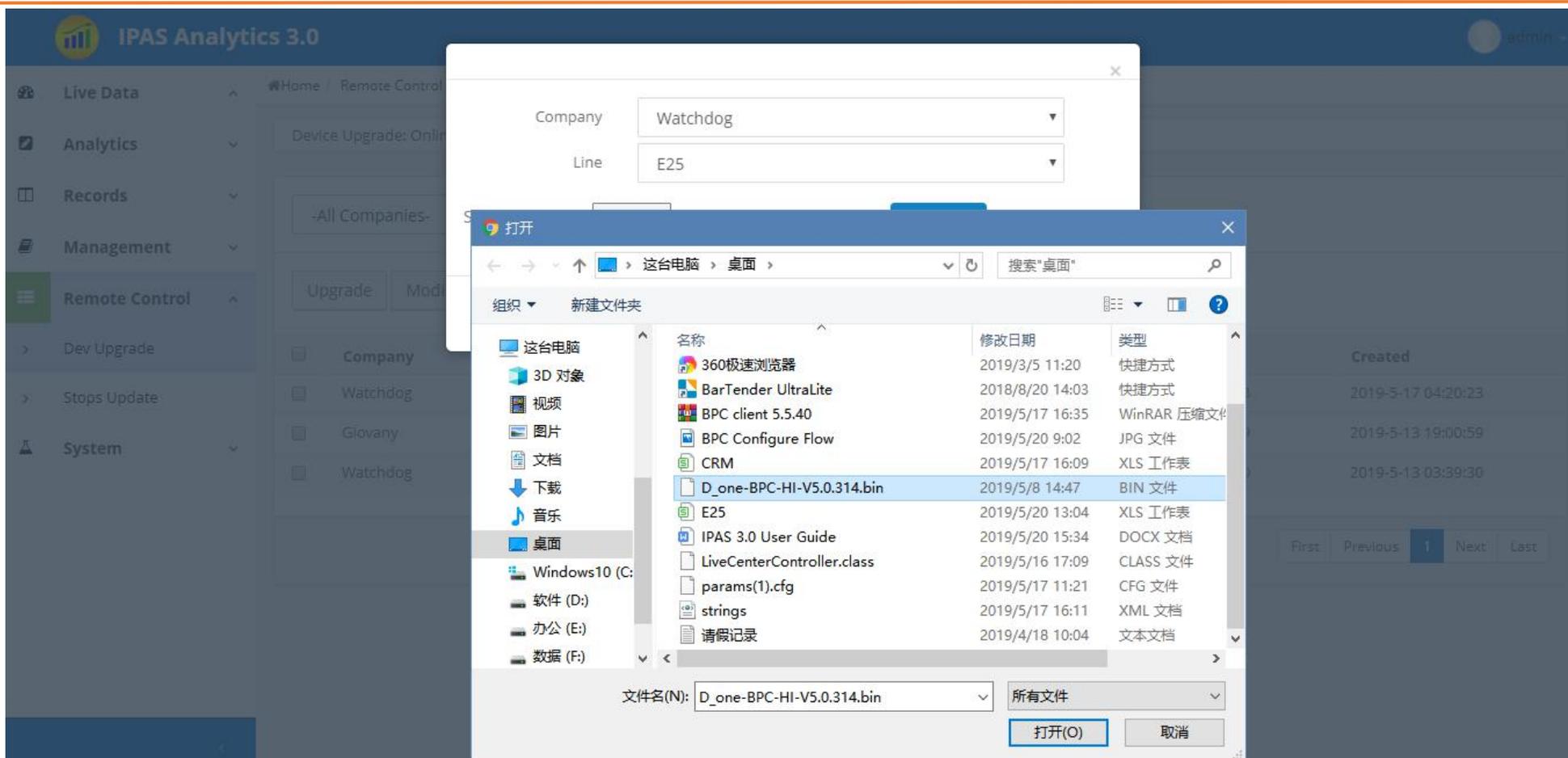
Upgrade Modify Cancel

<input type="checkbox"/>	Company	Line	Task Status	Head	Type	Version	Updated	Created
<input type="checkbox"/>	Watchdog	E25	Disable				2019-5-17 04:20:23	2019-5-17 04:20:23
<input type="checkbox"/>	Giovany	G110	Enable	D_one	BPC-HI	V5.0.314	2019-5-13 19:00:59	2019-5-13 19:00:59
<input type="checkbox"/>	Watchdog	M125	Enable	D_one	BPC-HI	V5.0.314	2019-5-13 03:39:30	2019-5-13 03:39:30

showing 1-3 of 3 items

First Previous 1 Next Last

Click Update to select new firmware to upload first. When buses of this line get online, server will ask all of them upgrade. You can modify or cancel this upgrading task.



2. Stops Update

For fast installation in the bus and change bus routes easily, some buses often shift different routes, so it must update its station data. IPAS need to collect data based on lines, so if user needs to shift some buses into new route, they must shift buses into new line in bus management page. Then update the target line, all new buses will be updated their stop list together. And IPAS will collect passenger traffic data as target line. It is very different from other pos system.

Stops Update: Update stations in to buses and make device recognize the station automtatically

-All Companies- -All Lines- -All Buses- Search

Auto Upgrade Upgrade Reset Cancel Batch

<input type="checkbox"/>	Company	Line	Bus	Task Status	Head	Version	Process	Times	Updated	Created
<input type="checkbox"/>	Watchdog	E25	Test13	Disable			Stop	0	2019-5-20 00:36:40	2019-5-20 00:36:40
<input type="checkbox"/>	Watchdog	E25	Test4	Disable			Stop	0	2019-5-19 23:04:22	2019-5-19 23:04:22
<input type="checkbox"/>	Watchdog	E25	Test9	Disable			Stop	0	2019-5-17 04:20:54	2019-5-17 04:20:54
<input type="checkbox"/>	Watchdog	M125	BPC-274-VRATA_3	Disable			Stop	0	2019-5-17 04:16:16	2019-5-17 04:16:16
<input type="checkbox"/>	Giovary	G110	116 SZQ886	Disable			Stop	0	2019-5-16 18:08:14	2019-5-16 18:08:14
<input type="checkbox"/>	Watchdog	M125	Test7	Disable			Stop	0	2019-5-16 17:39:58	2019-5-16 17:39:58
<input type="checkbox"/>	Watchdog	M125	APC	Disable			Stop	0	2019-5-15 01:30:17	2019-5-15 01:30:17

showing 1-7 of 7 items

First Previous 1 Next Last

The screenshot displays the IPAS Analytics 3.0 interface. On the left, a navigation menu includes 'Live Data', 'Analytics', 'Records', 'Management', 'Remote Control', 'Dev Upgrade', 'Stops Update', and 'System'. The 'Remote Control' section is expanded, showing 'Auto Upgrade' circled in black with a hand-drawn arrow pointing to the 'Upload' button in a modal dialog. The modal dialog is titled 'Company' and 'Line', with dropdown menus showing 'Watchdog' and 'E25' respectively. Below the dropdowns is a blue 'Upload' button and a 'Close' button. The background shows a table with columns: Company, Line, Bus, Task Status, Head, Version, Process, Times, Updated, and Created. The table contains 7 rows of data, all with 'Disable' status. At the bottom right, there are pagination controls: 'showing 1-7 of 7 items', 'First', 'Previous', '1', 'Next', and 'Last'.

Company	Line	Bus	Task Status	Head	Version	Process	Times	Updated	Created
Watchdog	E25	Test13	Disable			Stop	0	2019-5-20 00:36:40	2019-5-20 00:36:40
Watchdog	E25	Test4	Disable			Stop	0	2019-5-19 23:04:22	2019-5-19 23:04:22
Watchdog	E25	Test9	Disable			Stop	0	2019-5-17 04:20:54	2019-5-17 04:20:54
Watchdog	M125	BPC-274-VRATA_3	Disable			Stop	0	2019-5-17 04:16:16	2019-5-17 04:16:16
Giovany	G110	116 5ZQ886	Disable			Stop	0	2019-5-16 18:08:14	2019-5-16 18:08:14
Watchdog	M125	Test7	Disable			Stop	0	2019-5-16 17:39:58	2019-5-16 17:39:58
Watchdog	M125	APC	Disable			Stop	0	2019-5-15 01:30:17	2019-5-15 01:30:17

End.
Thanks

 IPAS Analytics 3.0
admin 

Home / Remote Control / Stops Update

Stops Update: Update stations in to buses and make device recognize the station automtatically

-All Companies- -All Lines- -All Buses- Search

Auto Upgrade Upgrade Reset Cancel Batch

<input type="checkbox"/>	Company	Line	Bus	Task Status	Head	Version	Process	Times	Updated	Created
<input type="checkbox"/>	Watchdog	E25	Test4	Enable	59	1558339715751	Stop	0	2019-5-20 01:08:35	2019-5-19 23:04:22
<input type="checkbox"/>	Watchdog	E25	Test13	Enable	59	1558339715751	Stop	0	2019-5-20 01:08:35	2019-5-20 00:36:40
<input type="checkbox"/>	Watchdog	E25	Test9	Enable	59	1558339715751	Stop	0	2019-5-20 01:08:35	2019-5-17 04:20:54
<input type="checkbox"/>	Watchdog	M125	BPC-274-VRATA_3	Disable			Stop	0	2019-5-17 04:16:16	2019-5-17 04:16:16
<input type="checkbox"/>	Giovany	G110	116 SZQ886	Disable			Stop	0	2019-5-16 18:08:14	2019-5-16 18:08:14
<input type="checkbox"/>	Watchdog	M125	Test7	Disable			Stop	0	2019-5-16 17:39:58	2019-5-16 17:39:58
<input type="checkbox"/>	Watchdog	M125	APC	Disable			Stop	0	2019-5-15 01:30:17	2019-5-15 01:30:17

showing 1-7 of 7 items

First Previous **1** Next Last