IPAS Analytics 3.0

Guidebook

2019-5-20

Content

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

Declaimer

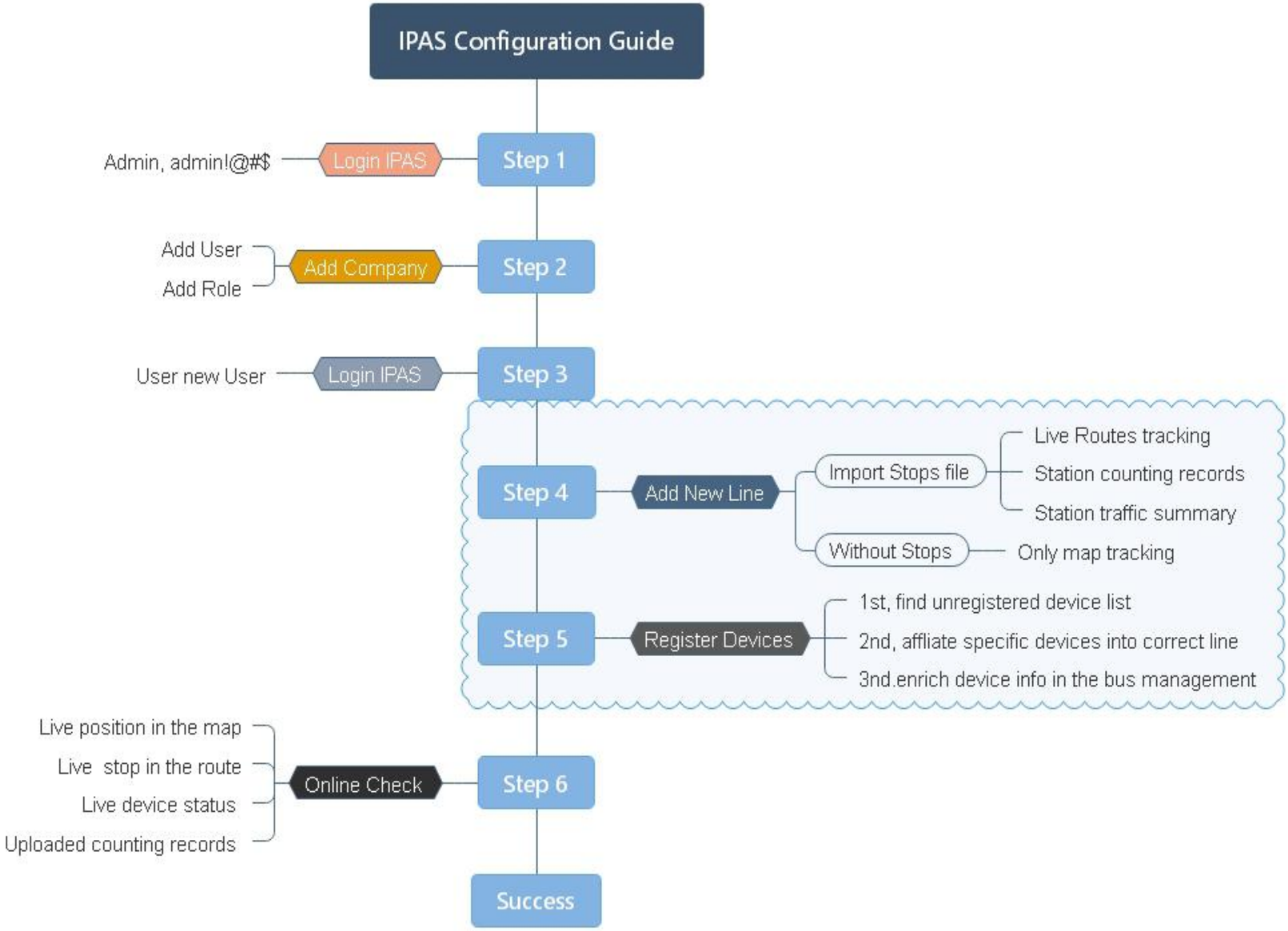
The content in this manual may be different from the software version in your computers. If you are unable to resolve a problem while the system installation or operation, please contact our technical support team or your supplier. The contents of this manual will be updated all the time when the software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

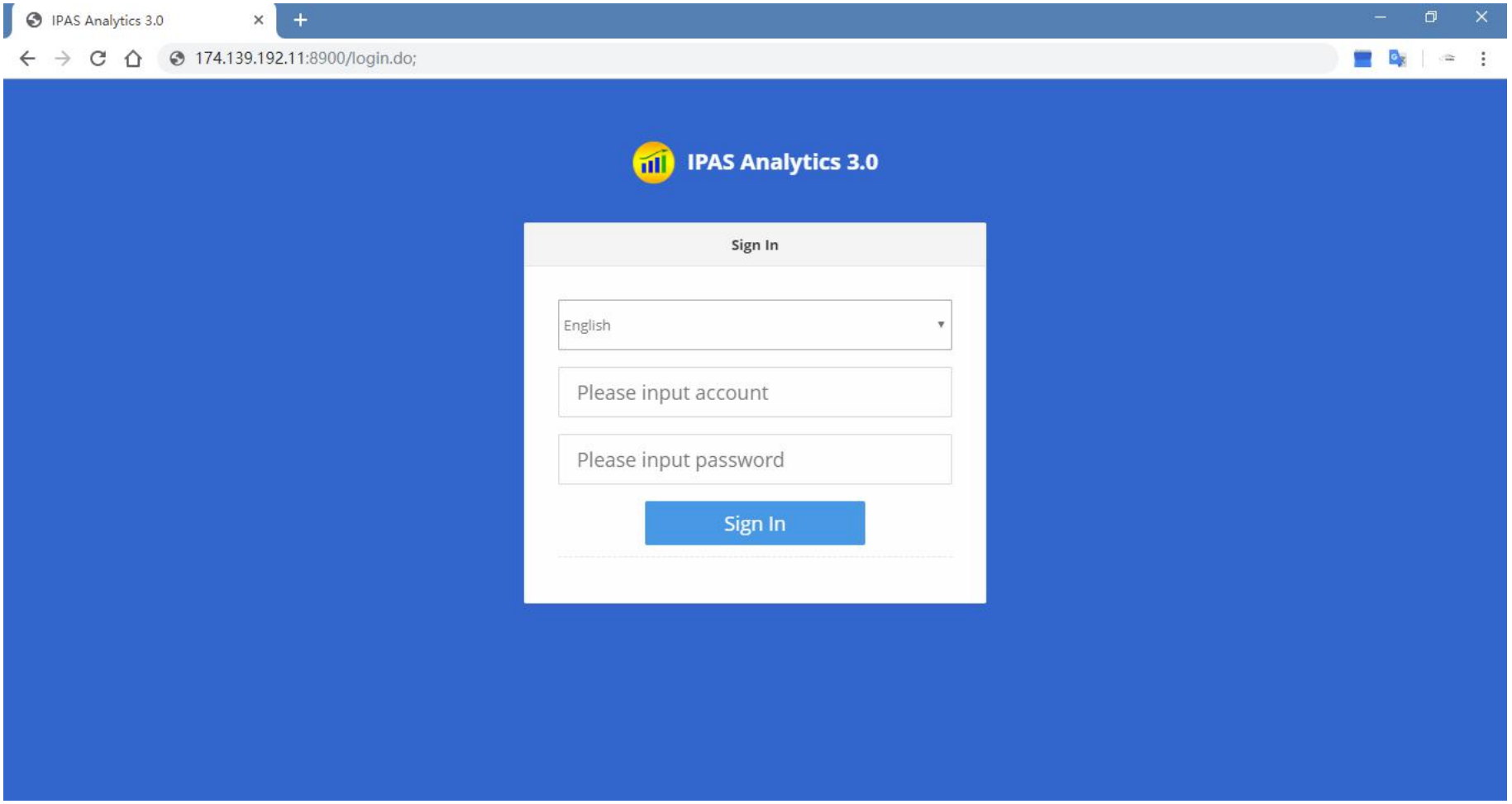
Configuration Steps Map



Step 1: Login IPAS Analytics 3.0

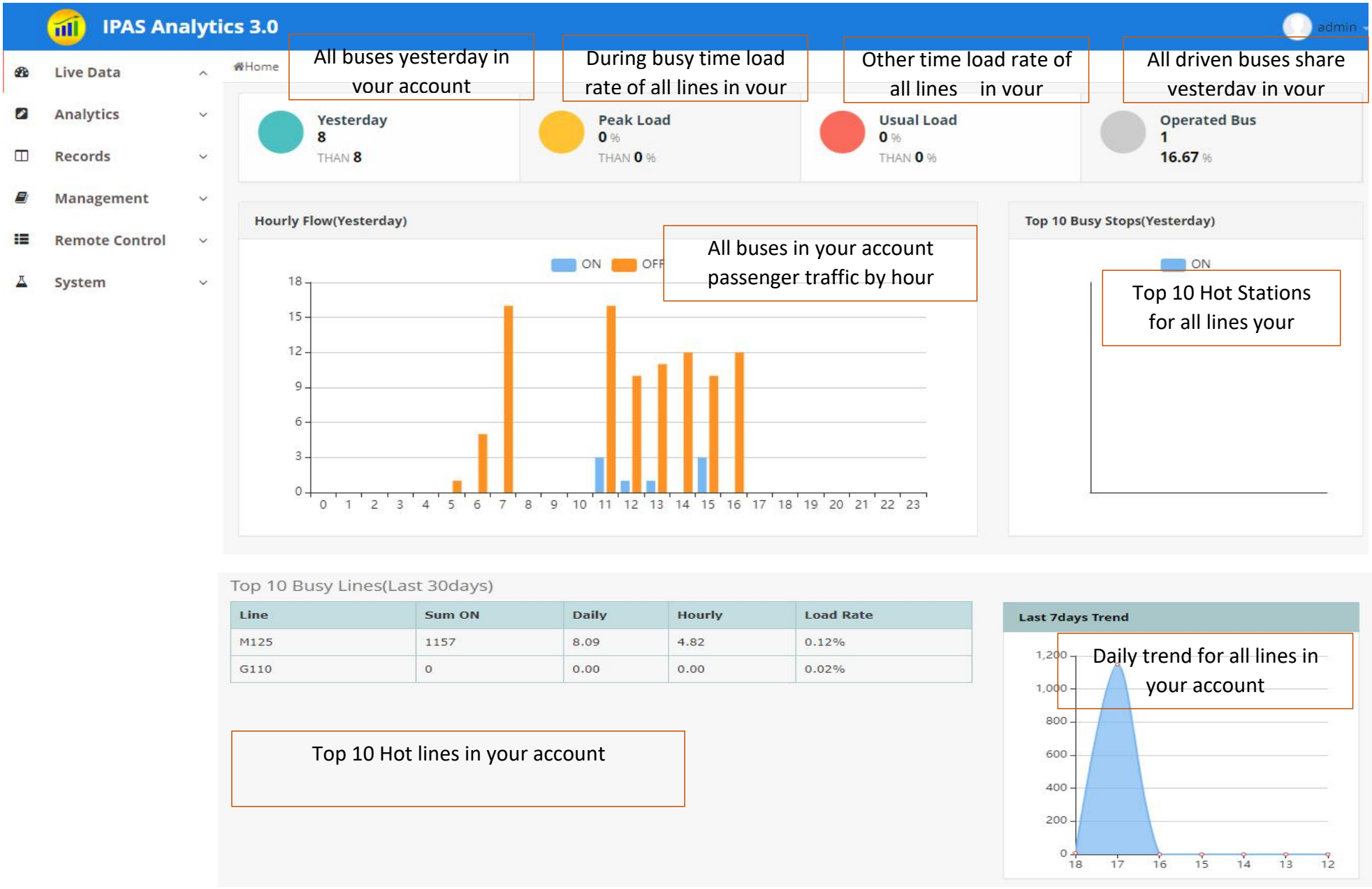
1. Login Page

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.

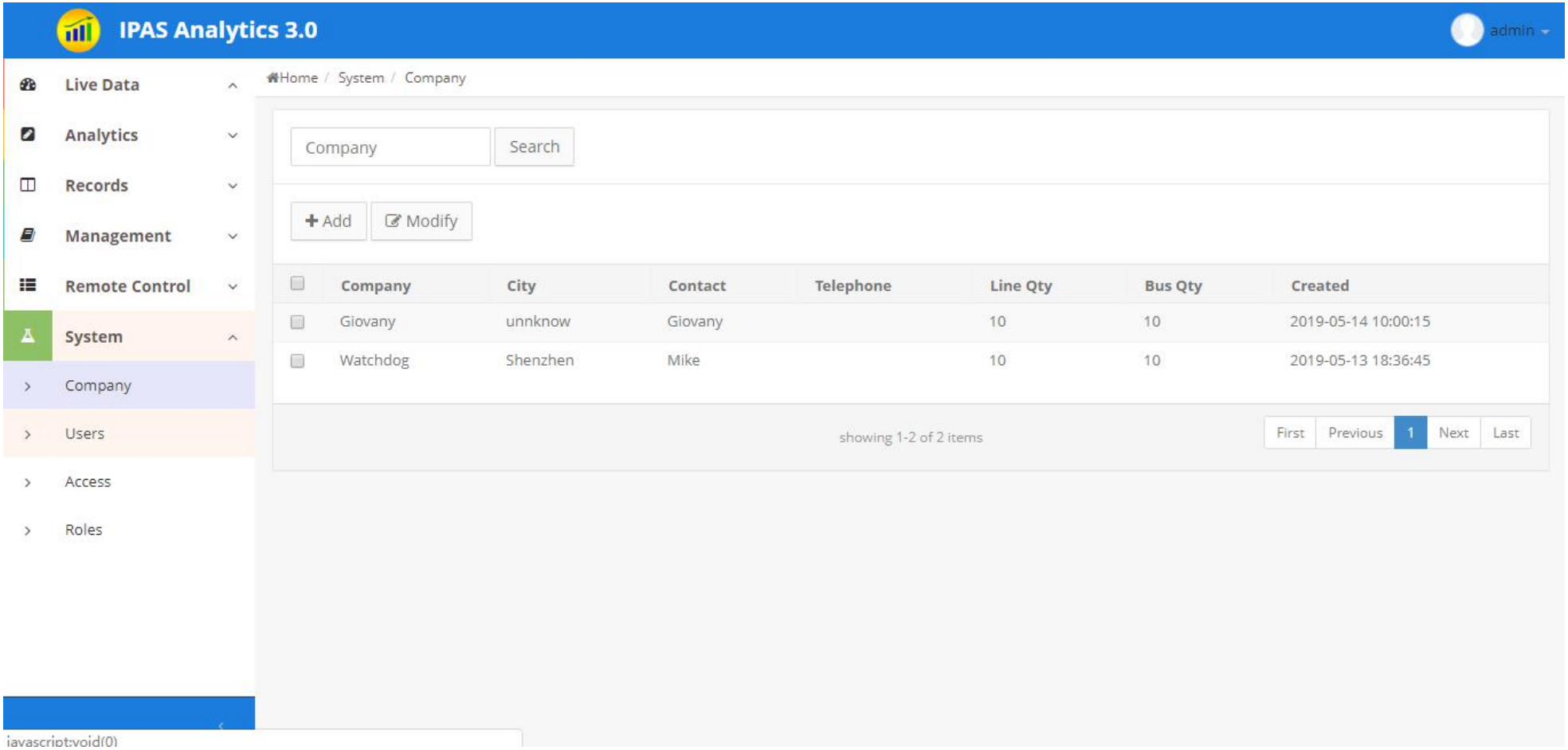
You can learn important summary history traffic easily.



Step 2: Add Company & Users

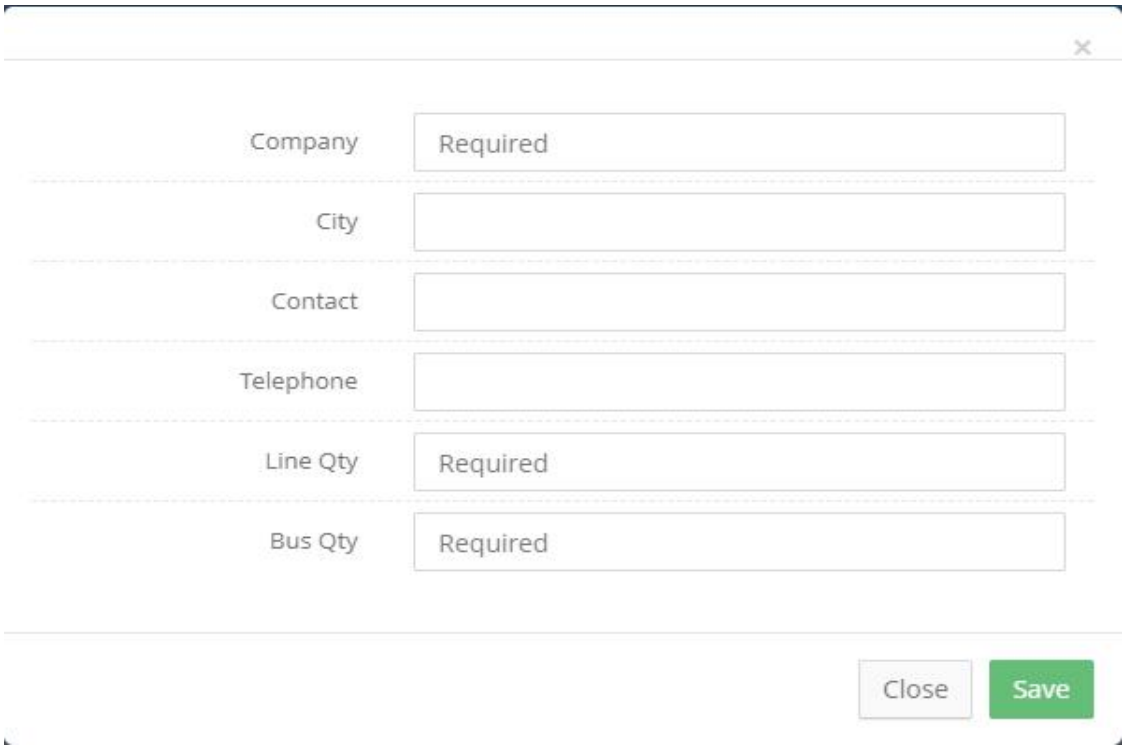
1. Add Company:

Register a new company account.



Remarks:

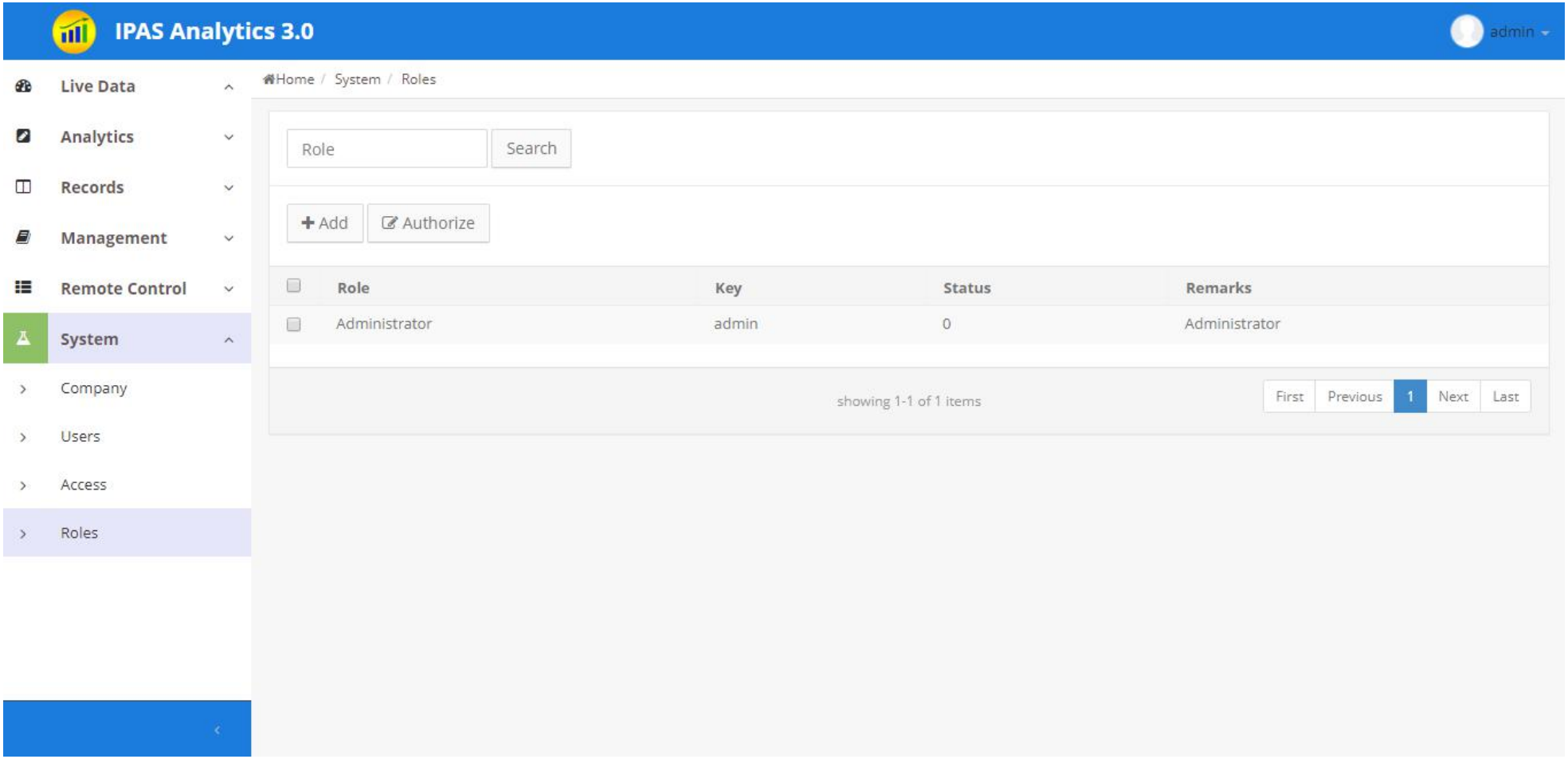
- Register company info. All fields had better to fill.
- Line qty and bus qty is for counting some data.
- Contact person will not be login account.



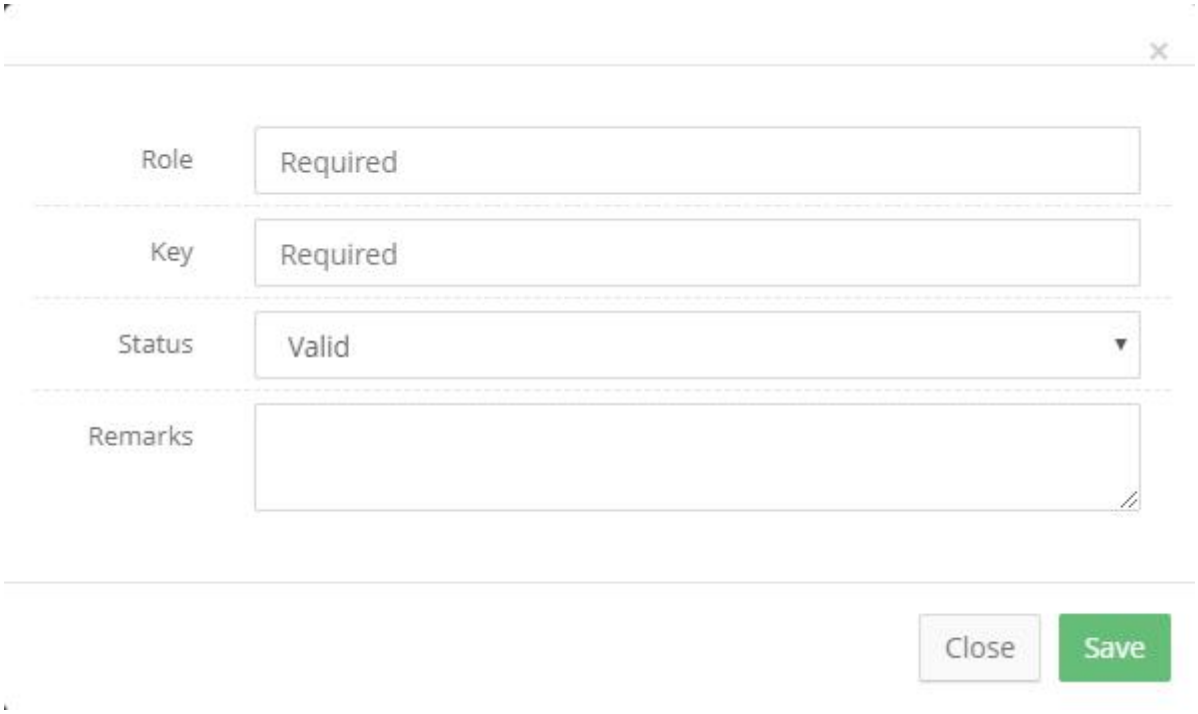
2. Add User

Before your 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

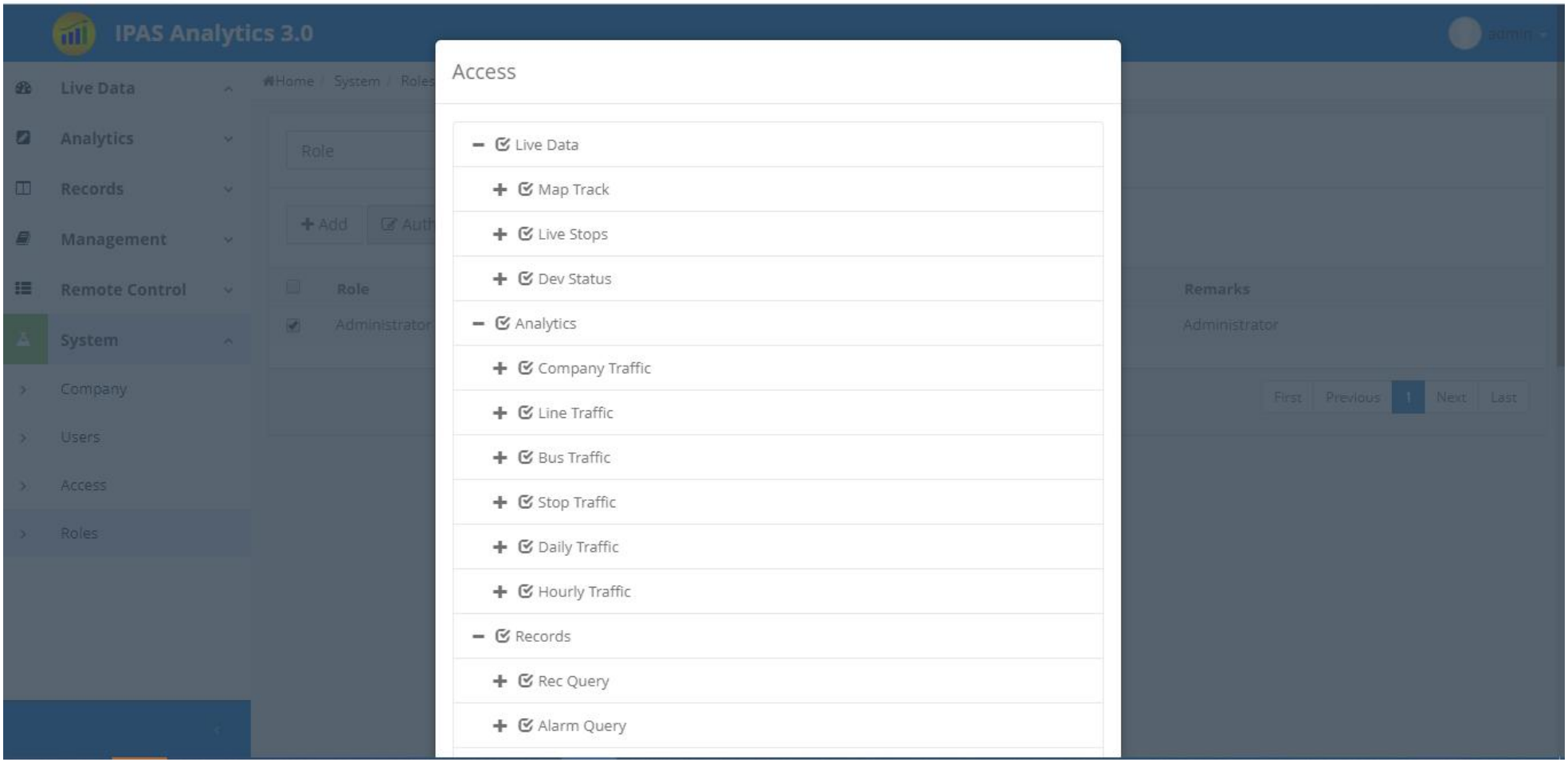


3. Add A New Role

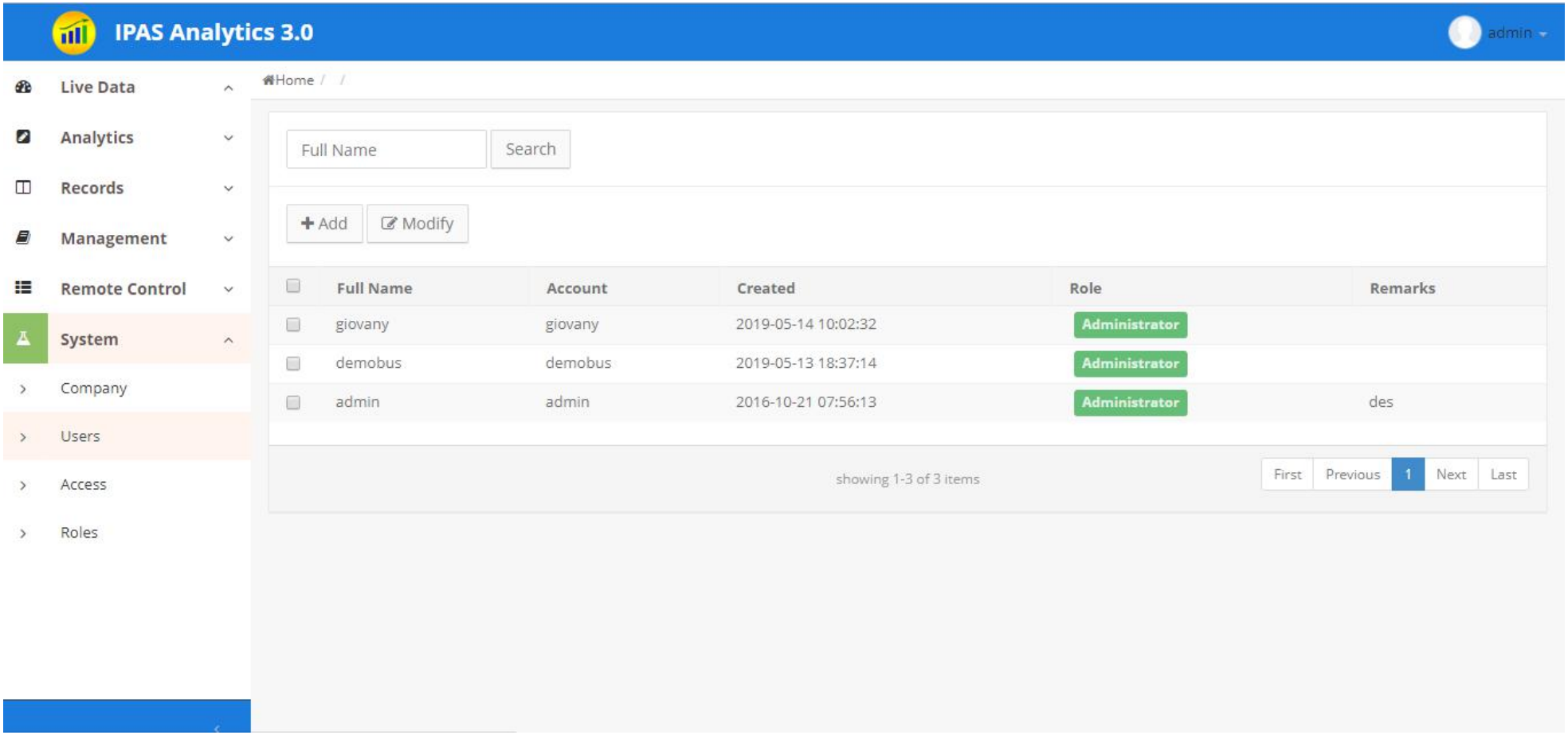


4. Authorize Role:

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

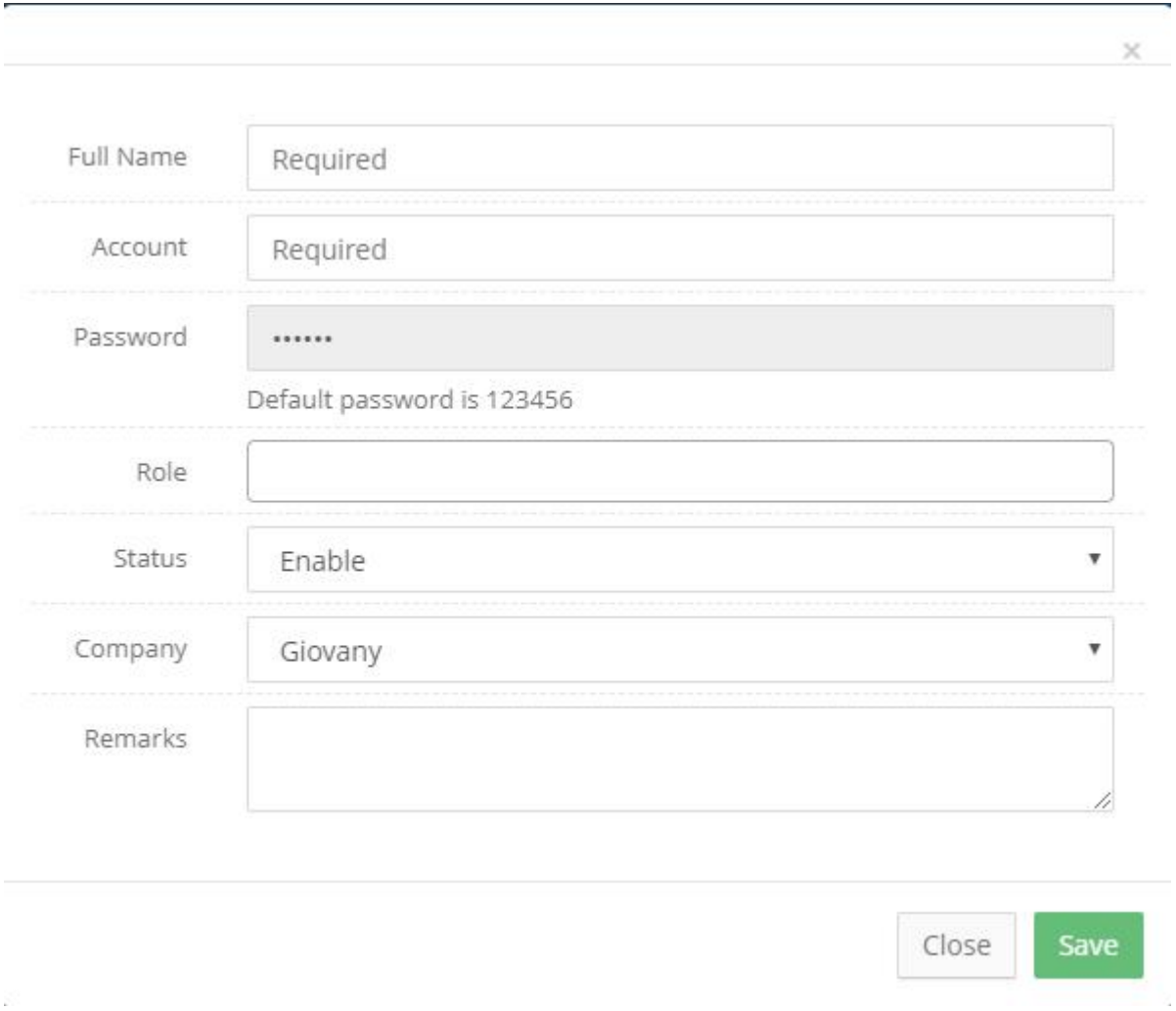


5. Add a new User.

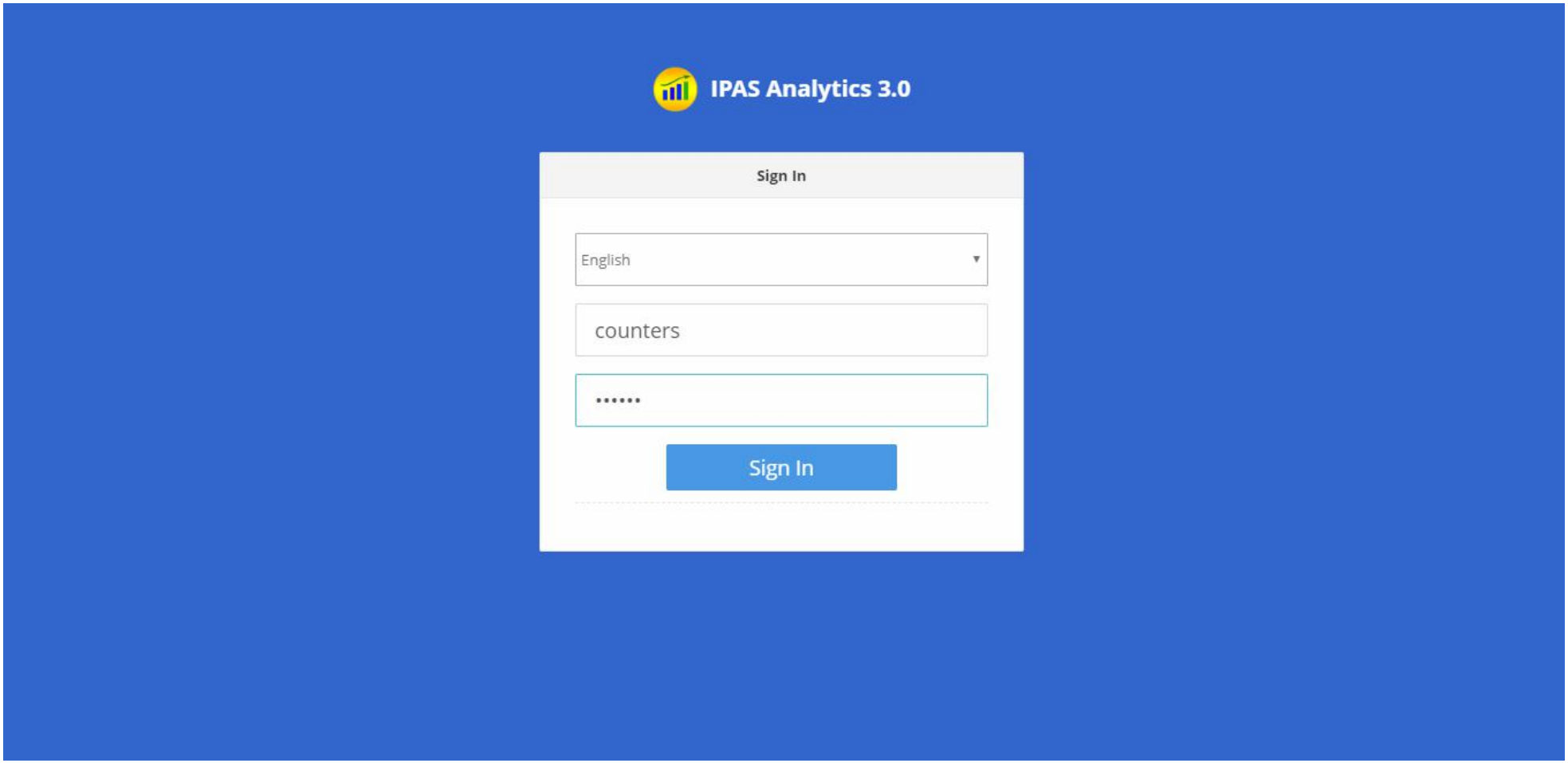


Remarks

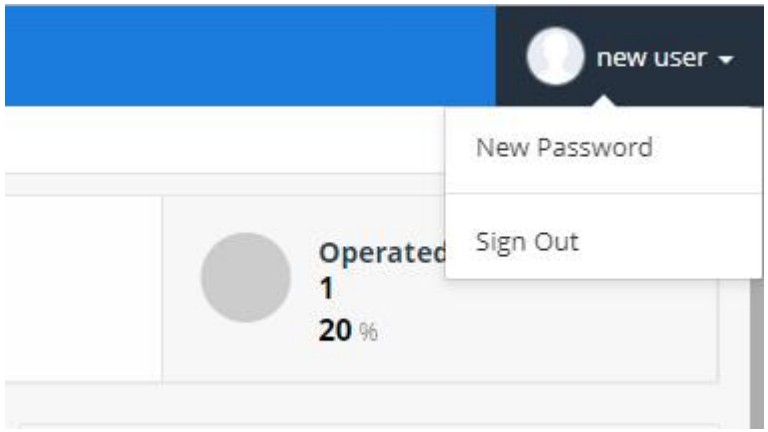
- Default password for new account: 123456.
- Role must be chosen.
- Company must be chosen too.



Step 3: Login IPAS with New Account



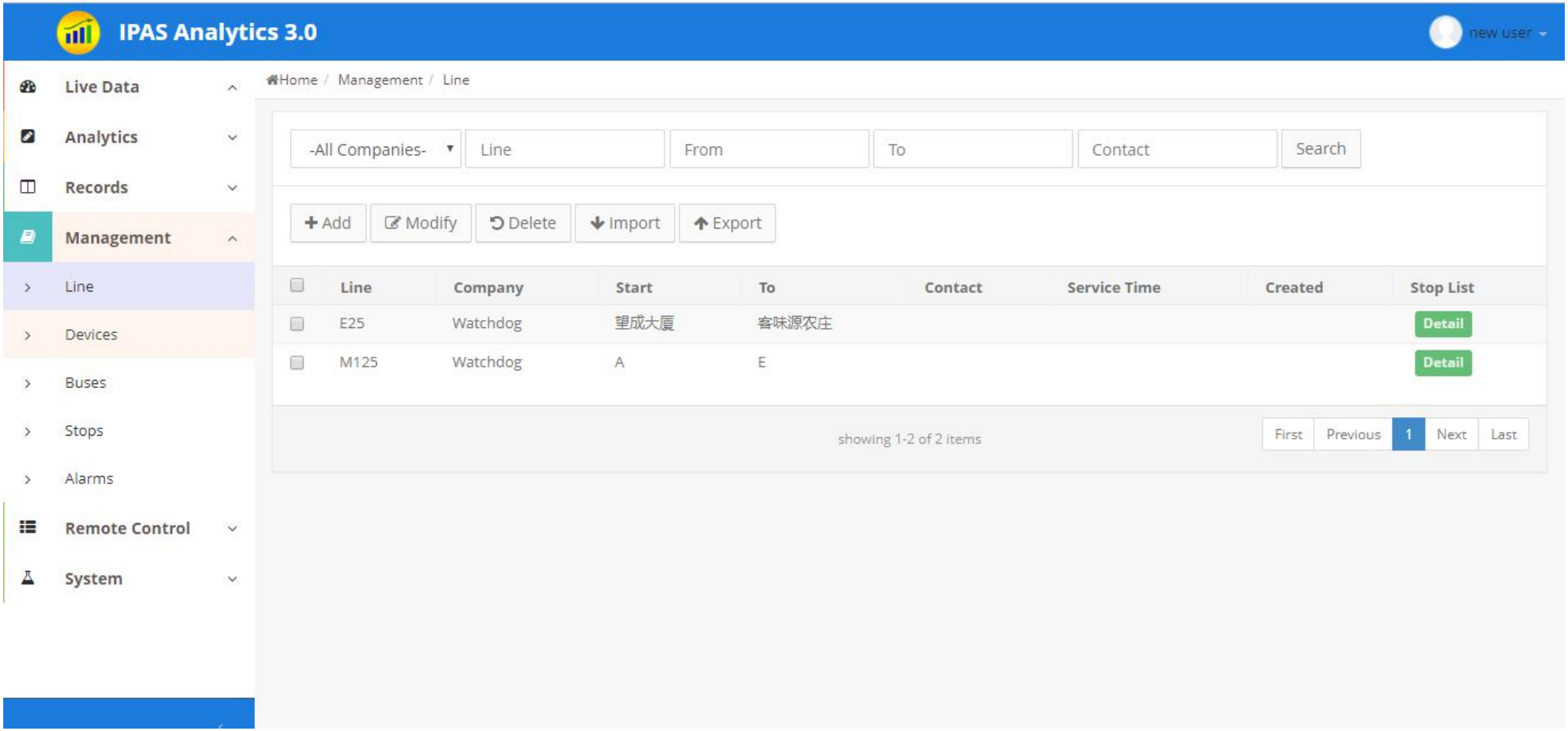
Modify Password:



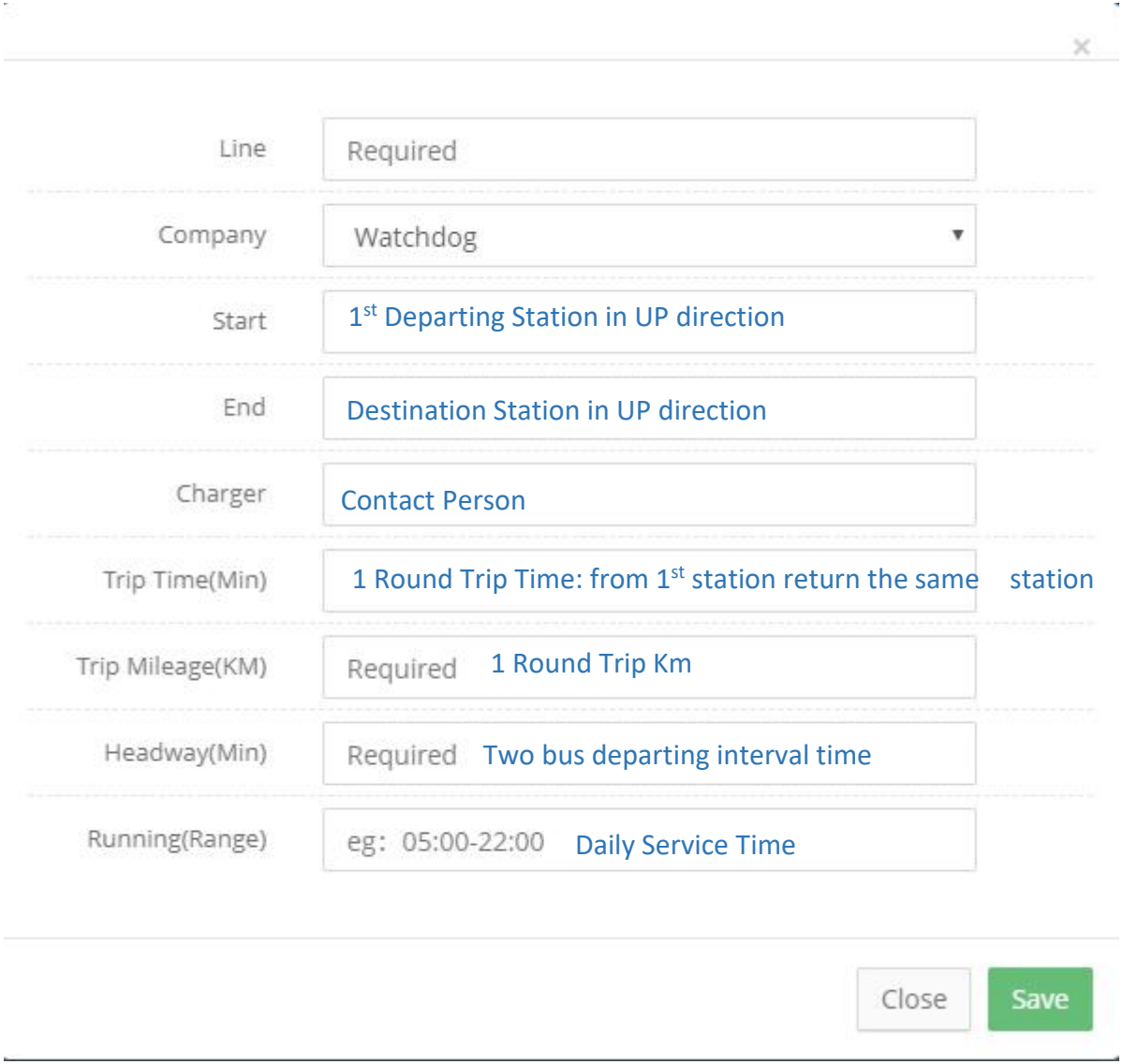
Click New Password:

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.

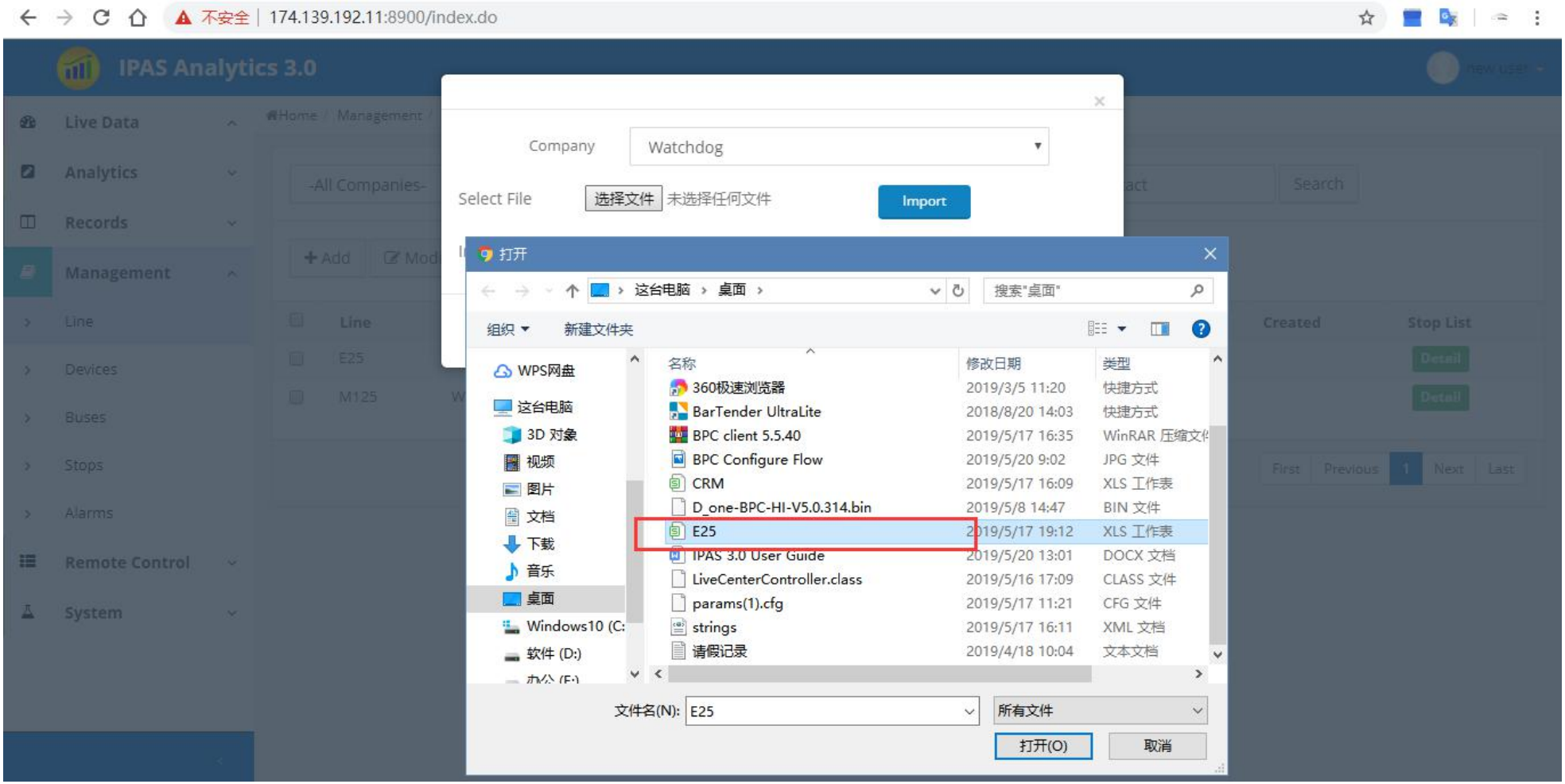


1. Create a new line without stops



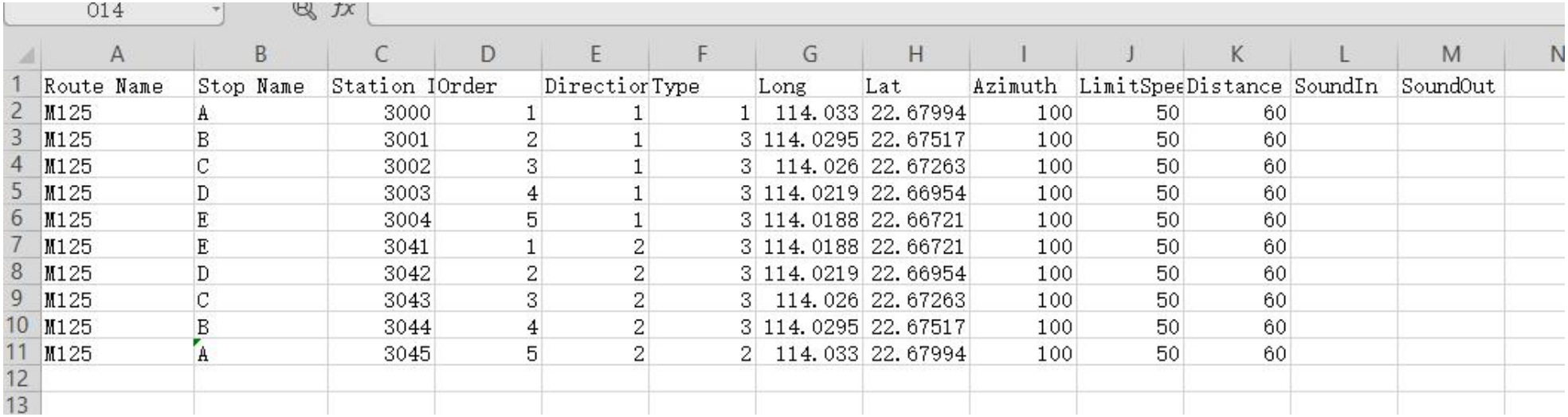
2. Import Station File.

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
1	Route Name	Stop Name	Station I	Order	Directior	Type	Long	Lat	Azimuth	LimitSpee	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.

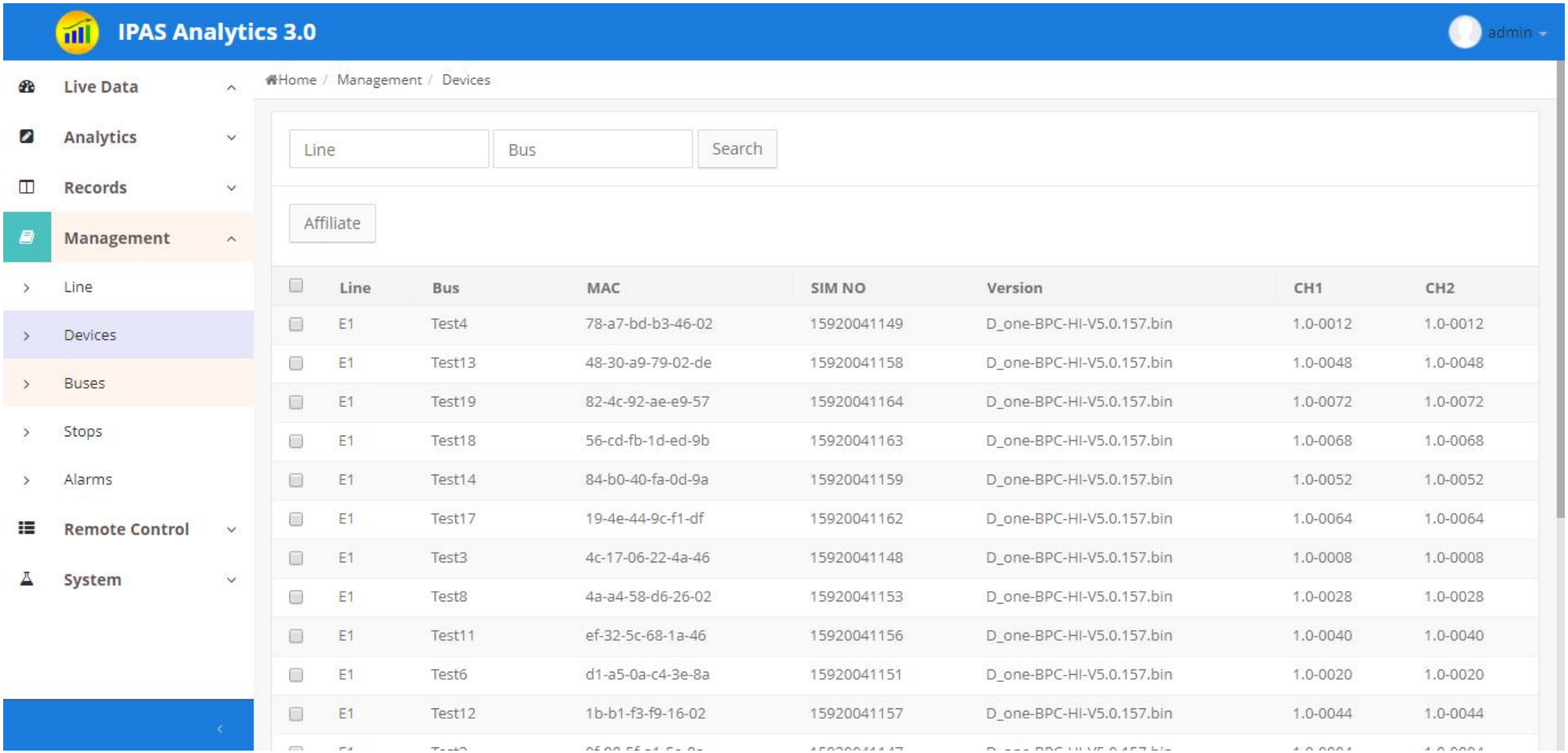
Station list

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

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

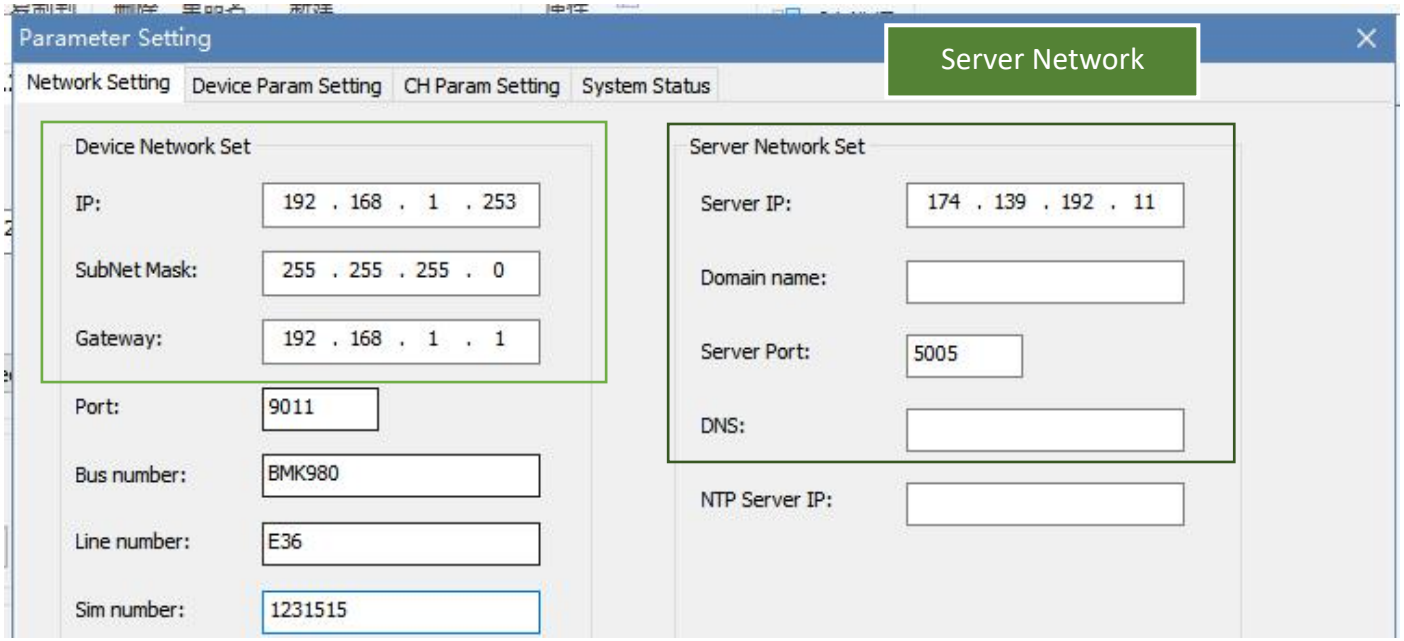
Step 5: Register Devices

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.

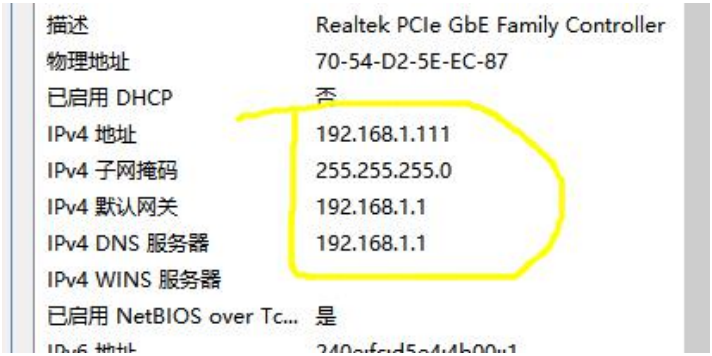


People Counter Connected: Before you can see the device mac in IPAS.

BPC Network

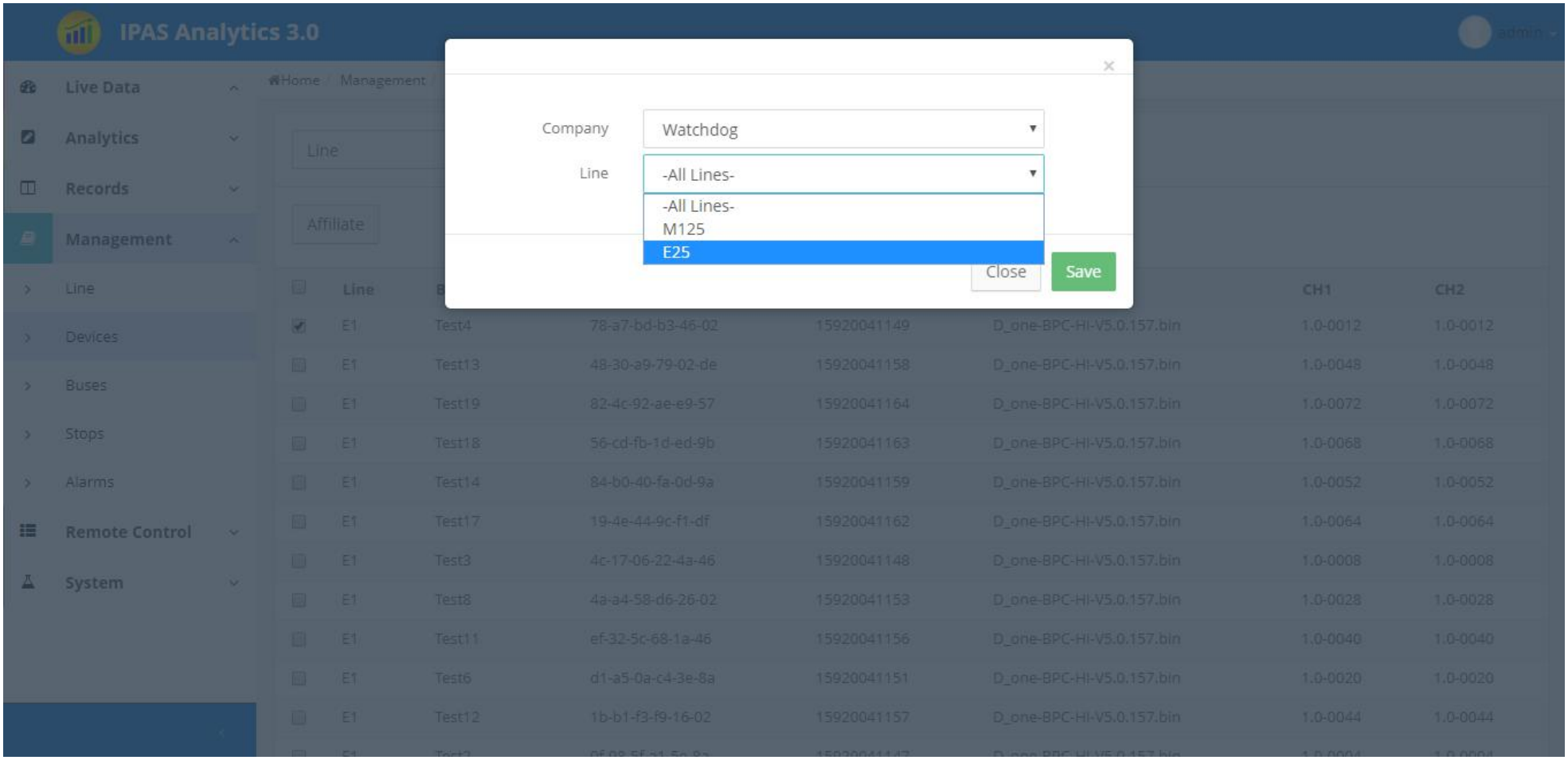


Computer Network



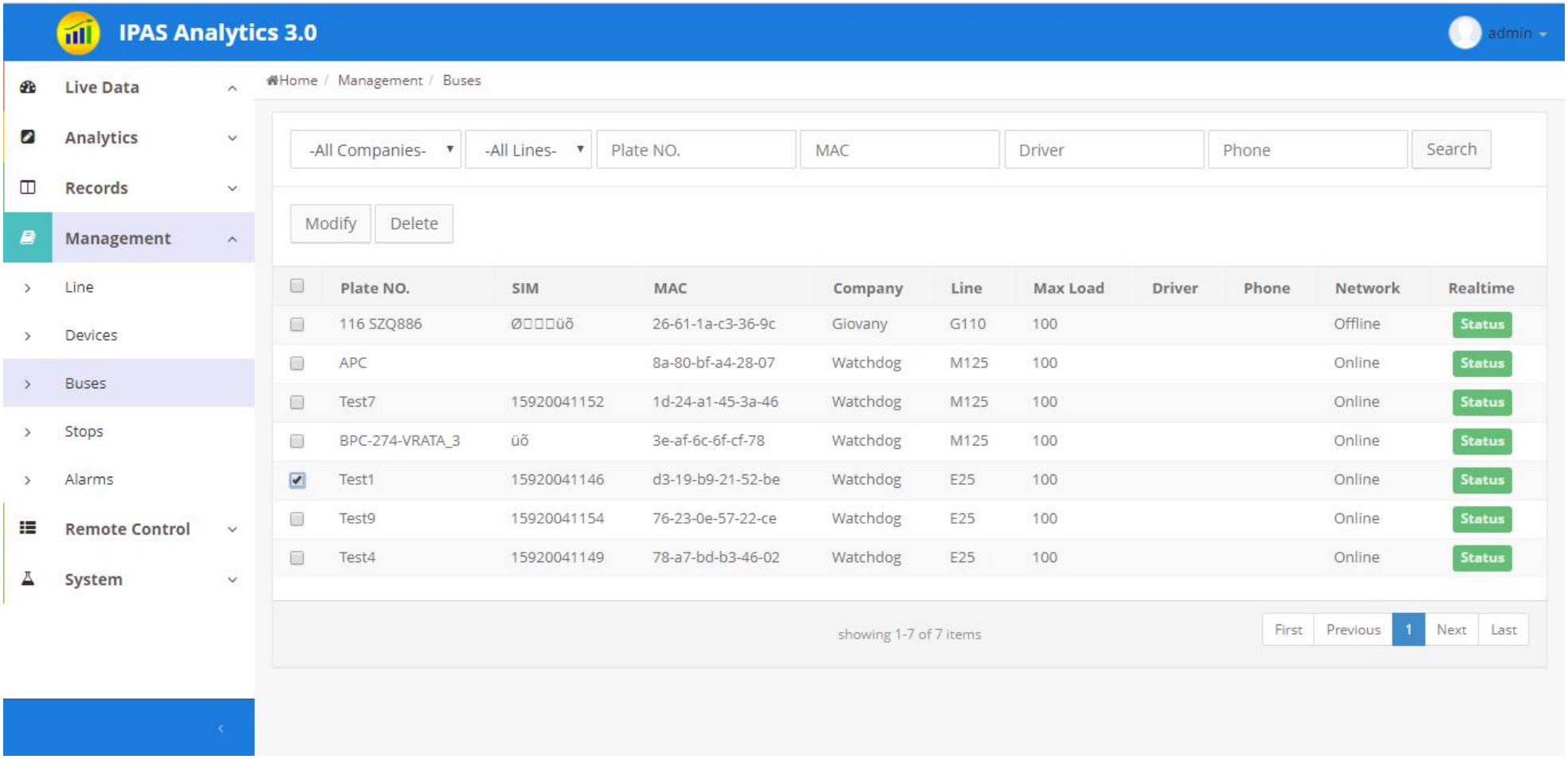
1. Affiliate Bus:

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



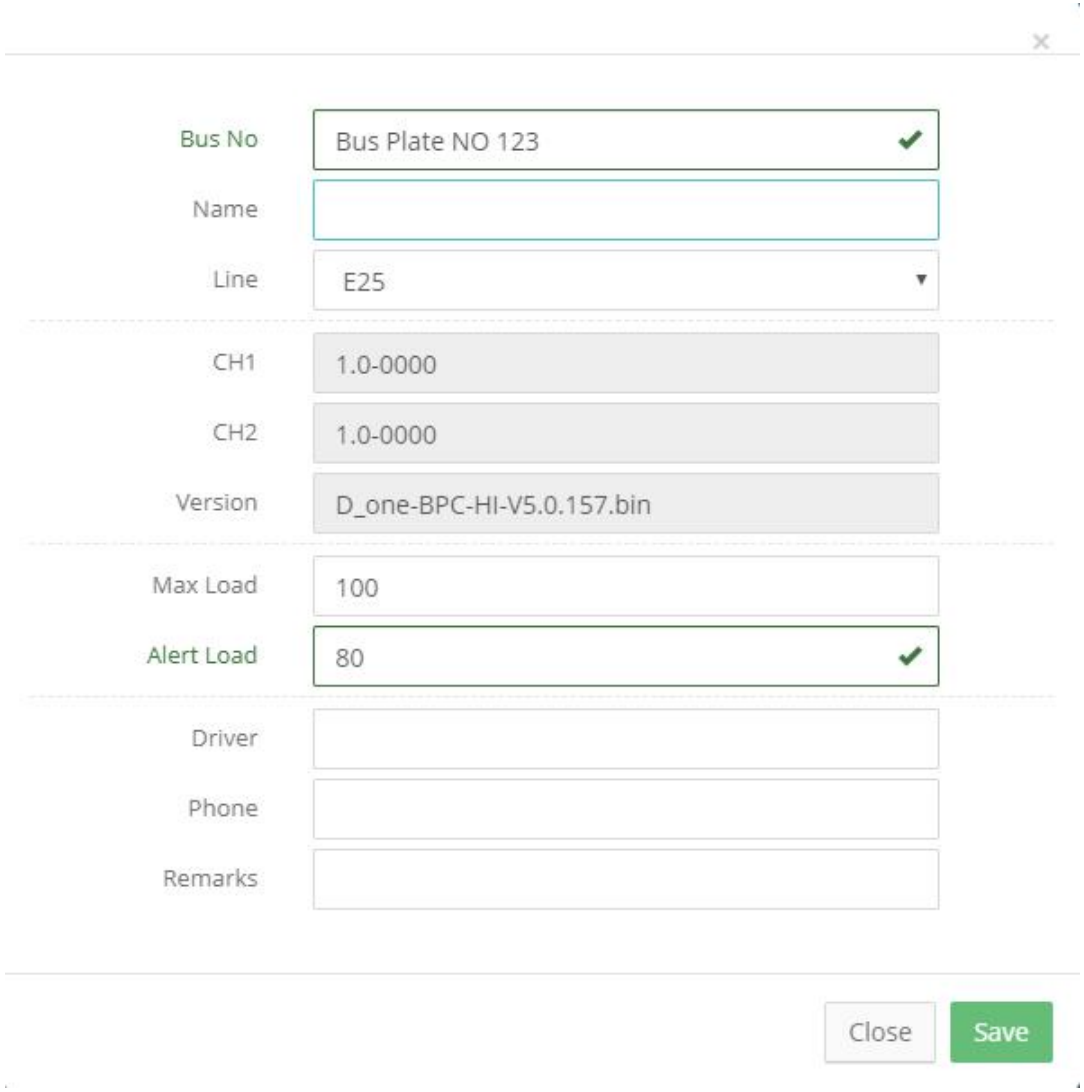
1. Enrich Bus Info

Enrich bus information for better experience.



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

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



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:

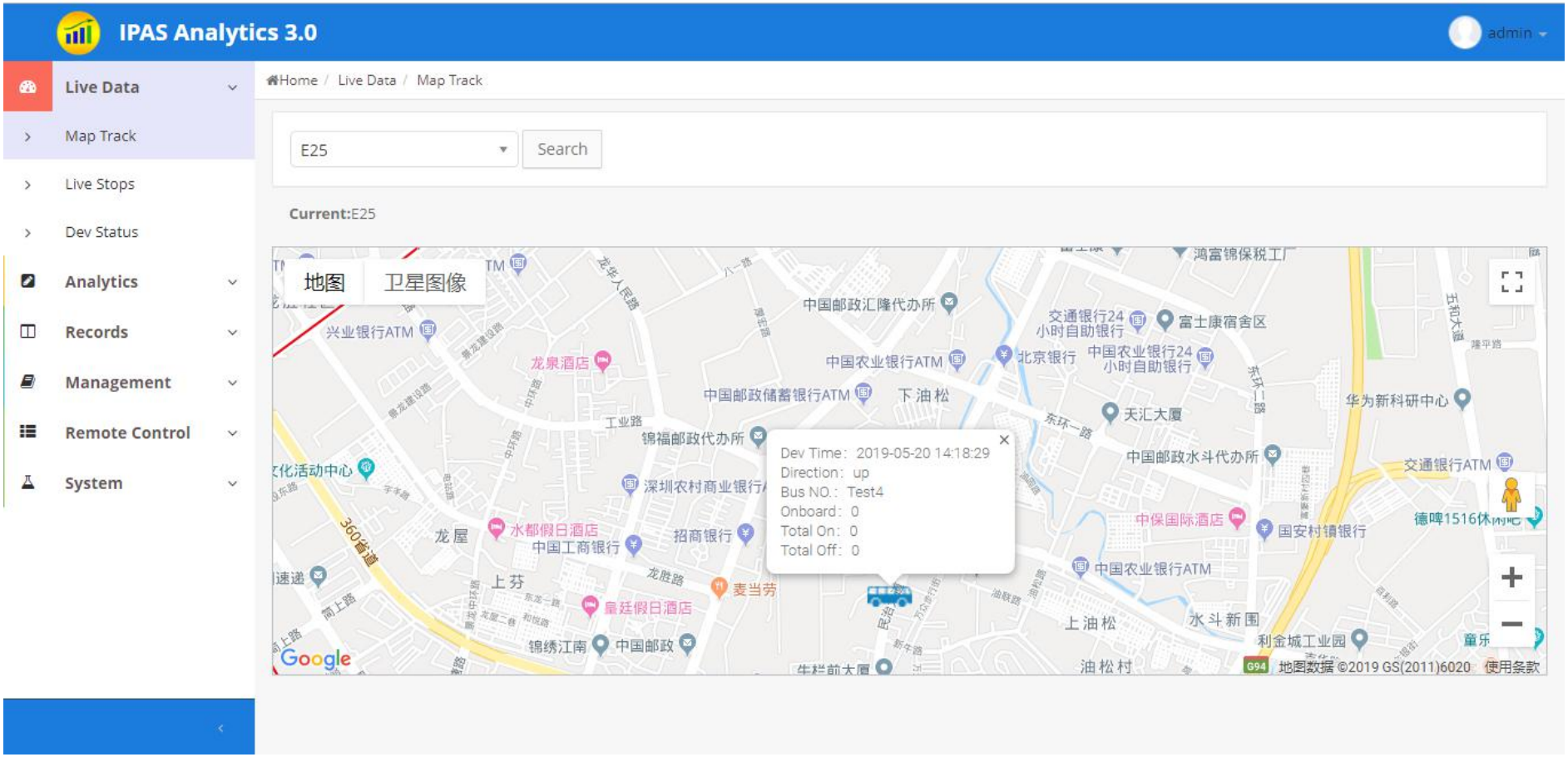
Zone	Functions	Function Description
A. Live Data	1. Map Track	Tracking your buses in map with current passenger counting data
	2. Live Stops	Locate your buses in every route with current passenger data
	3. Dev Status	List all your buses in grid with current passenger data, also learn device status
B. 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

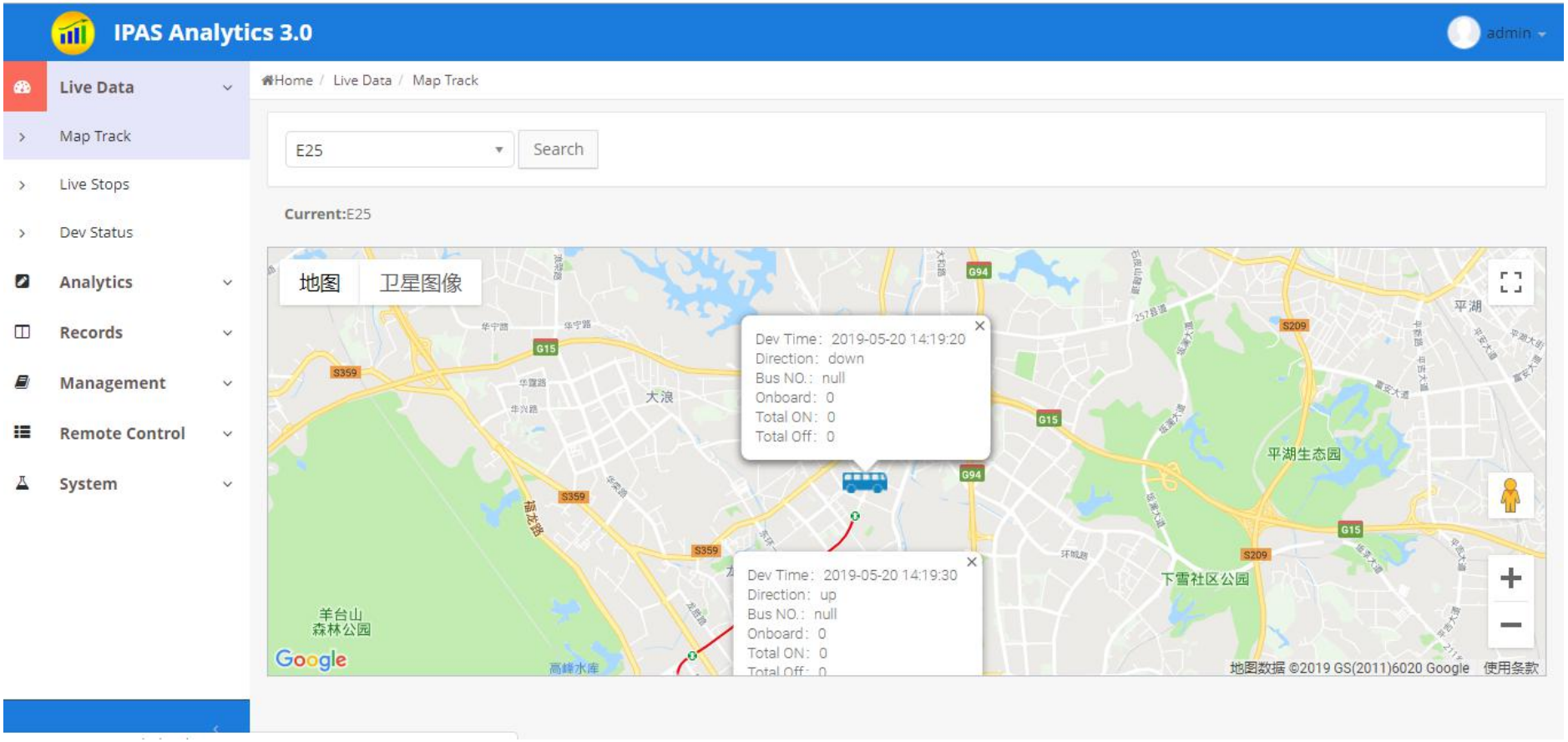
1. Map Tracking

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.



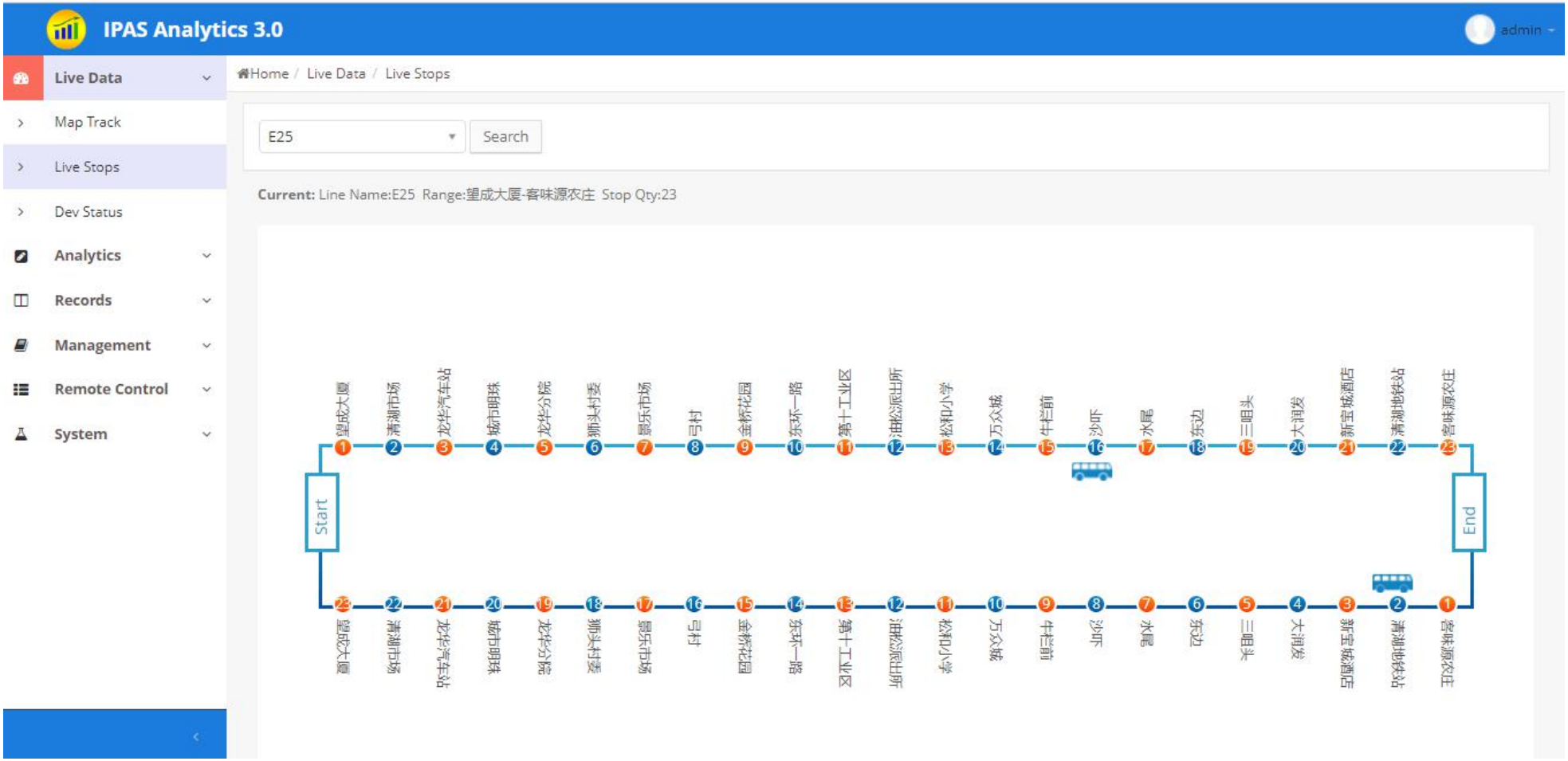
You can drag the map or zoom+/- so that you can see more buses.


IPAS Analytics 3.0
admin
Live Data
Map Track
Live Stops
Dev Status
Analytics
Records
Management
Remote Control
System
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
大浪
平湖
平湖生态园
下雪社区公园
羊台山
森林公园
高峰水库
Google
地图数据 ©2019 GS(2011)6020 Google 使用条款

2. Live Stops

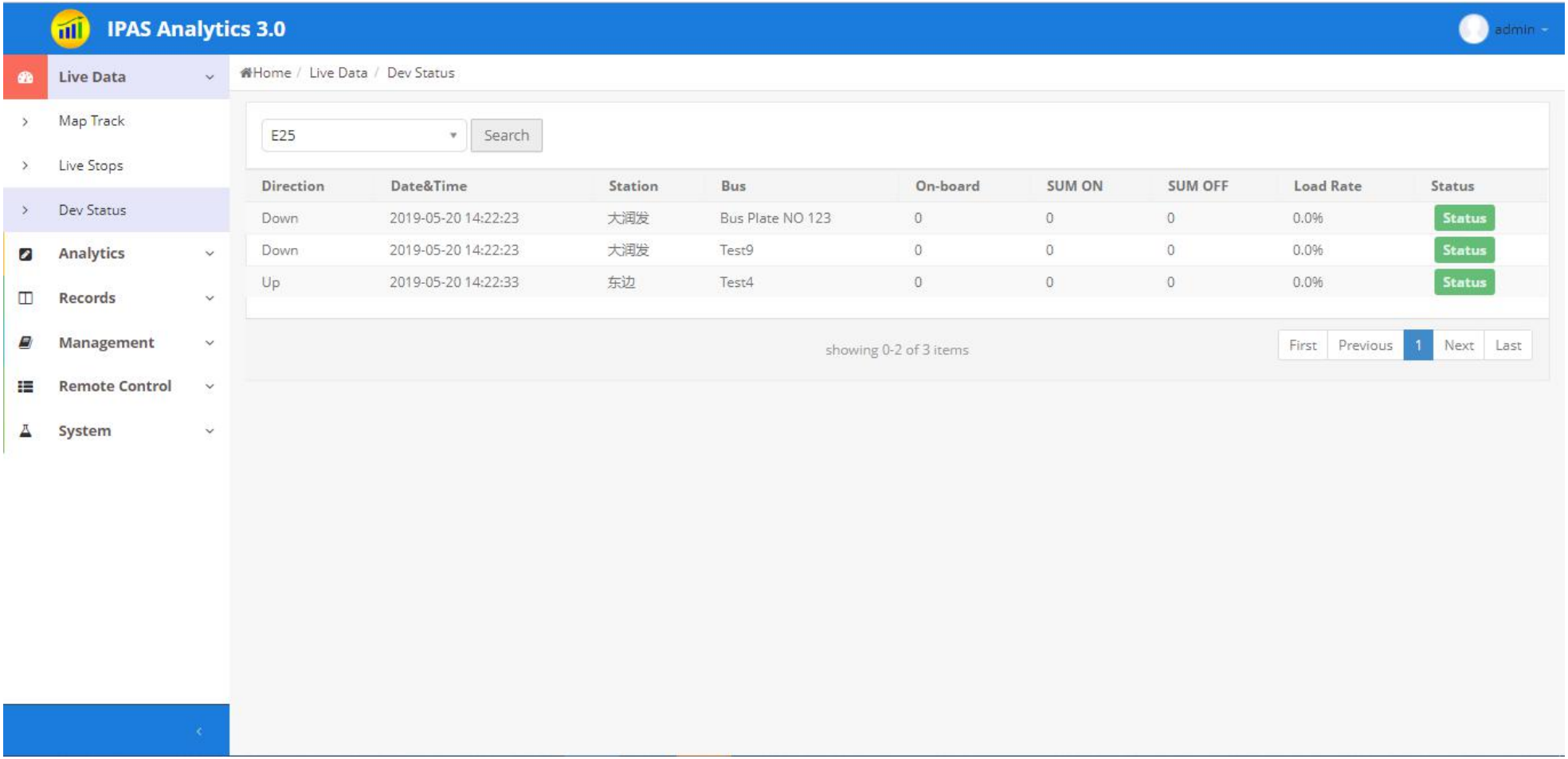
Counter can recognize specific station name with GPS coordinate. After your import station file with csv into device offline, or update station files online by ipas, counter will send all counting records with station names automatically. IPAS will recognize the station order id and shown its position.

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

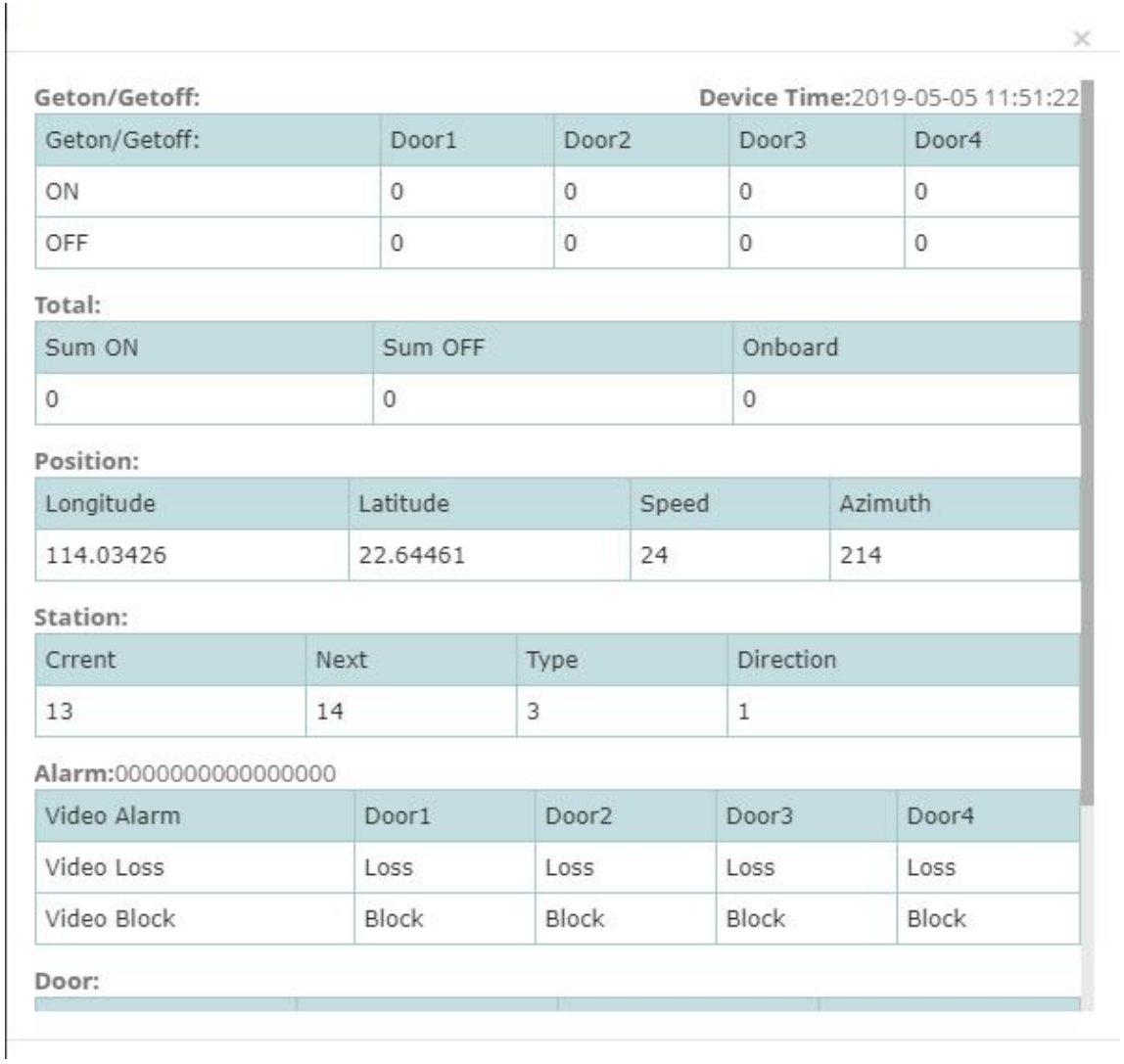


3. Device Status

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.



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



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

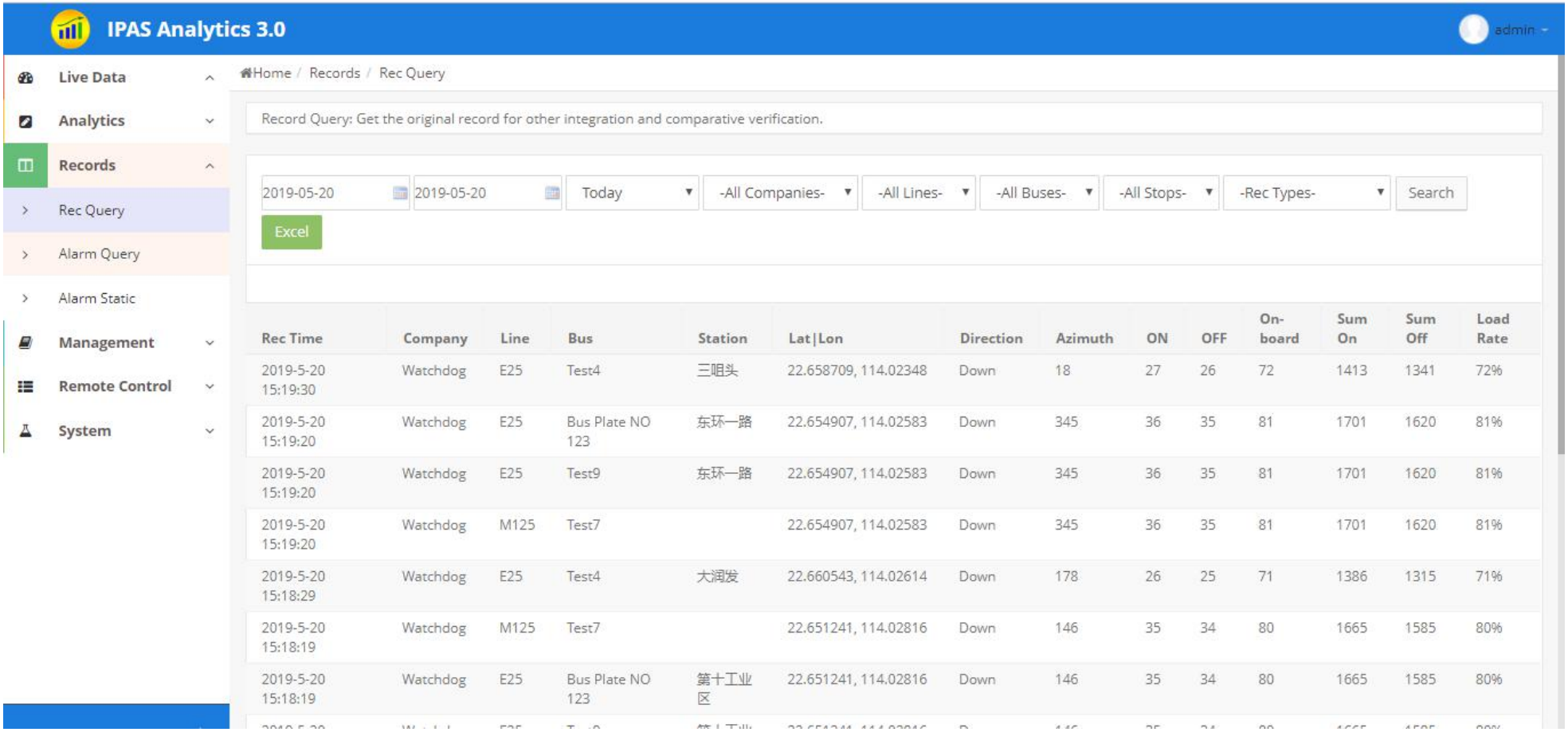
Video Alarm	Door1	Door2	Door3	Door4
Video Loss	Loss	Loss	Loss	Loss
Video Block	Block	Block	Block	Block

Door:

B. Records

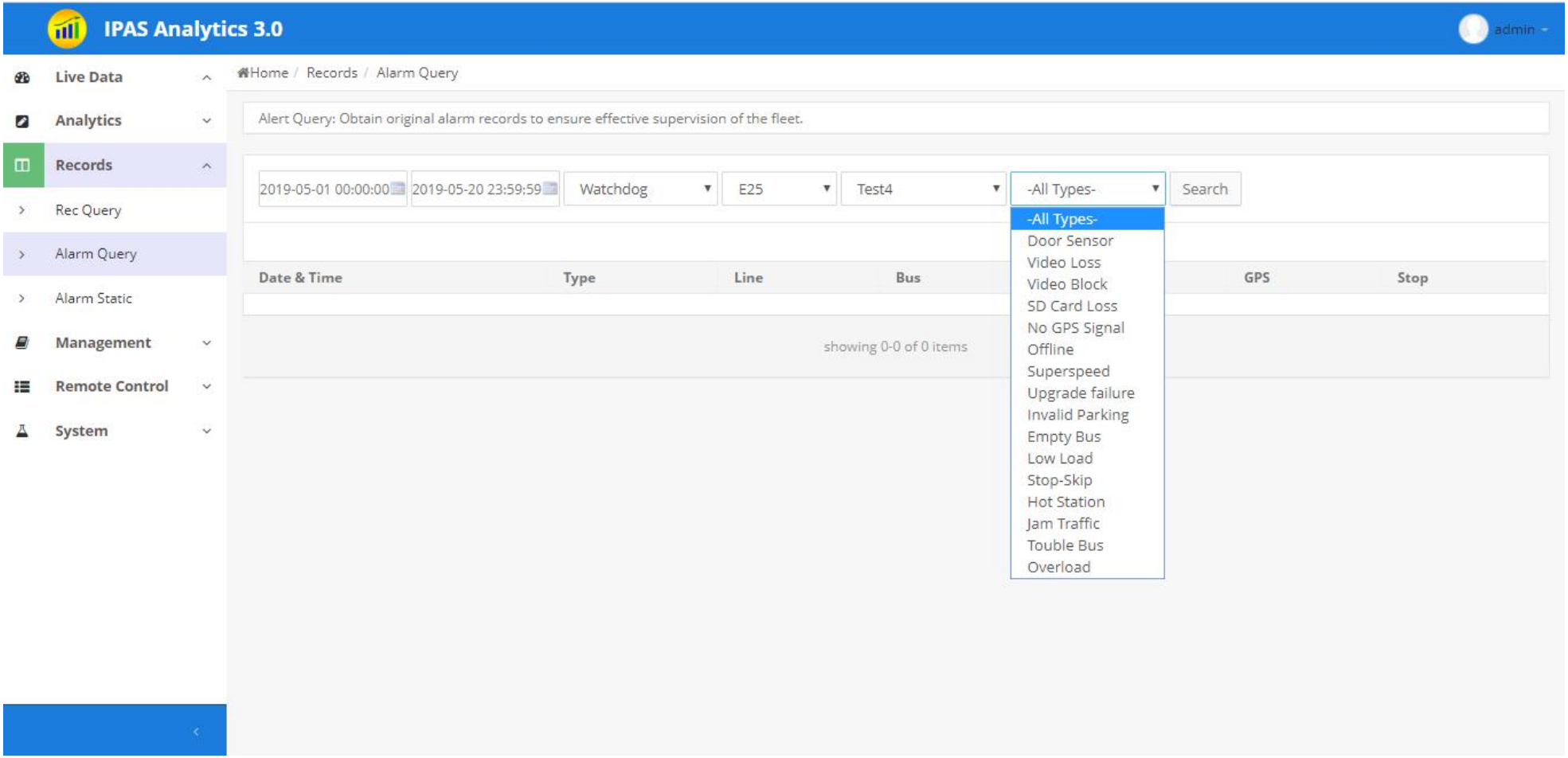
1. Record Query

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.



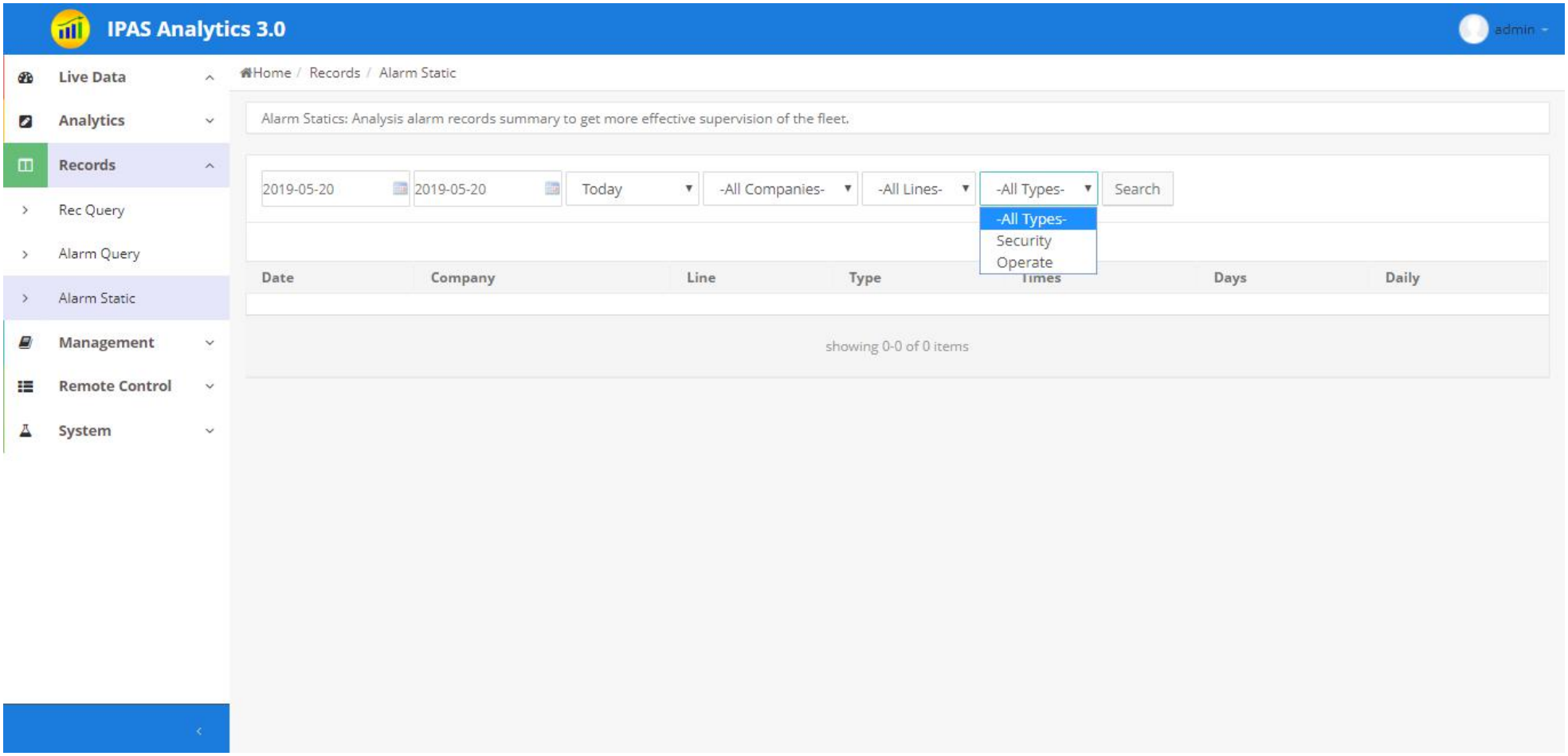
2. Alarm Query (Coming)

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

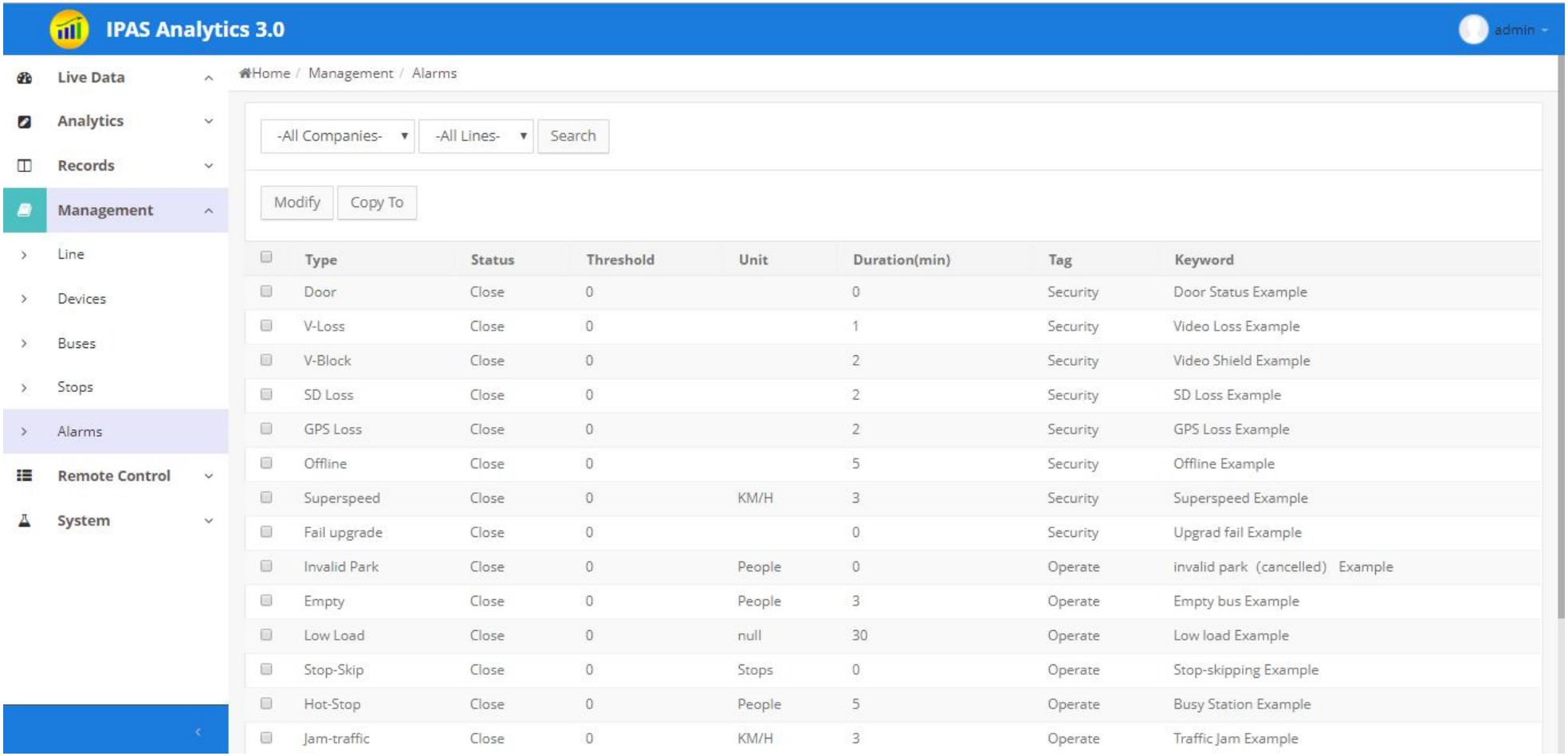


3. Alarm Static.

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



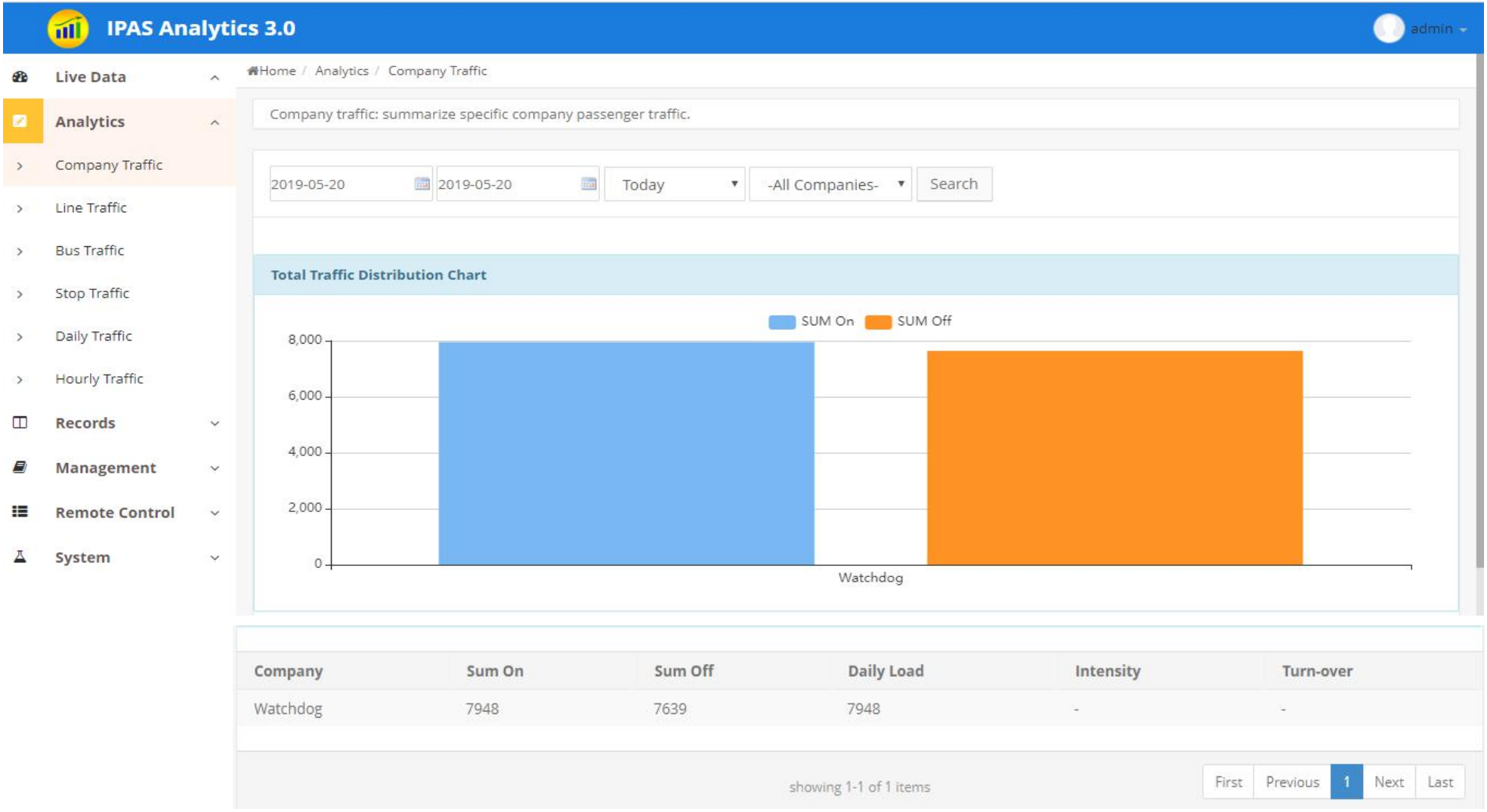
4. Alarm Configuration (Coming)

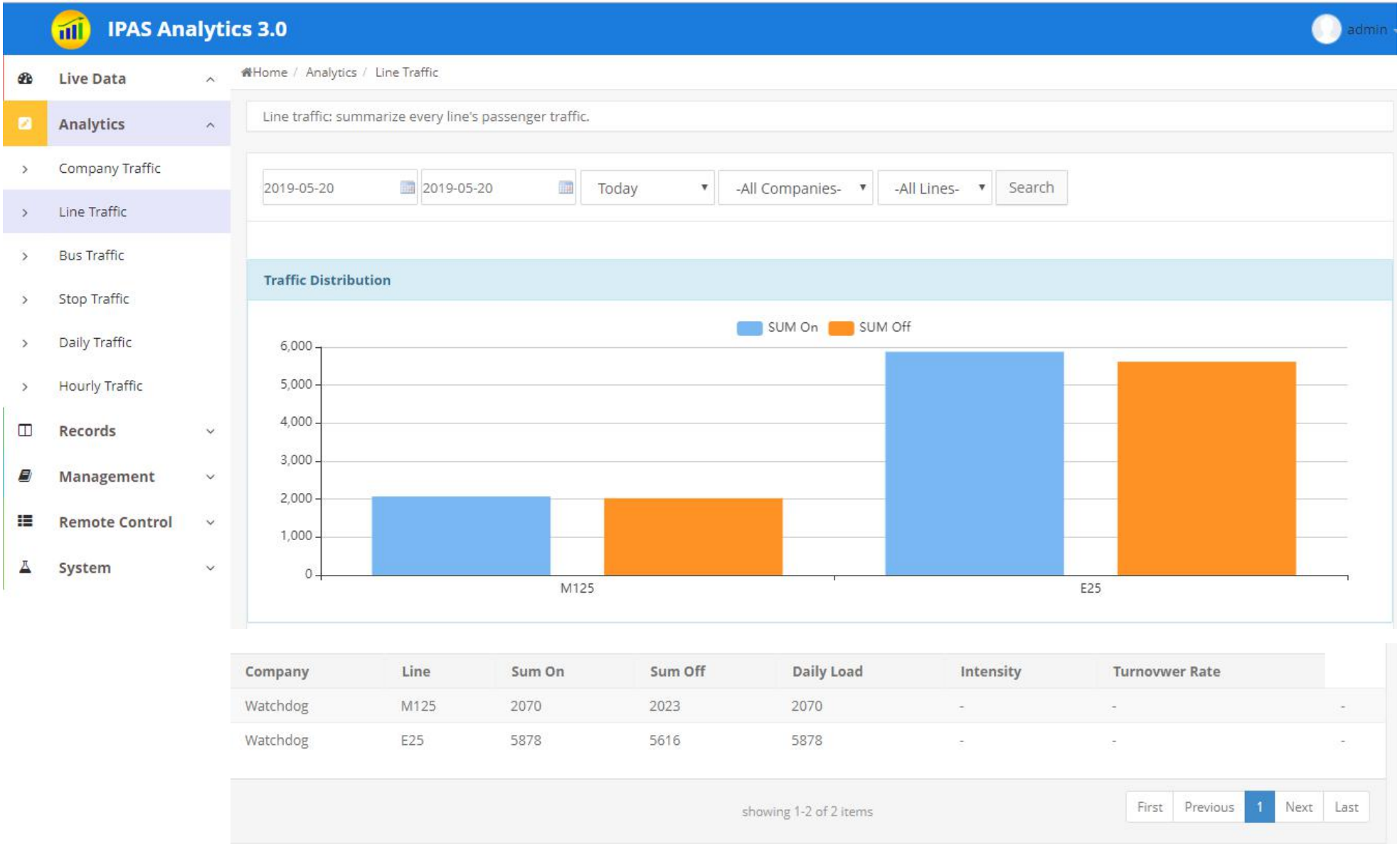


Type	Status	Threshold	Unit	Duration(min)	Tag	Keyword
Door	Close	0		0	Security	Door Status Example
V-Loss	Close	0		1	Security	Video Loss Example
V-Block	Close	0		2	Security	Video Shield Example
SD Loss	Close	0		2	Security	SD Loss Example
GPS Loss	Close	0		2	Security	GPS Loss Example
Offline	Close	0		5	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.

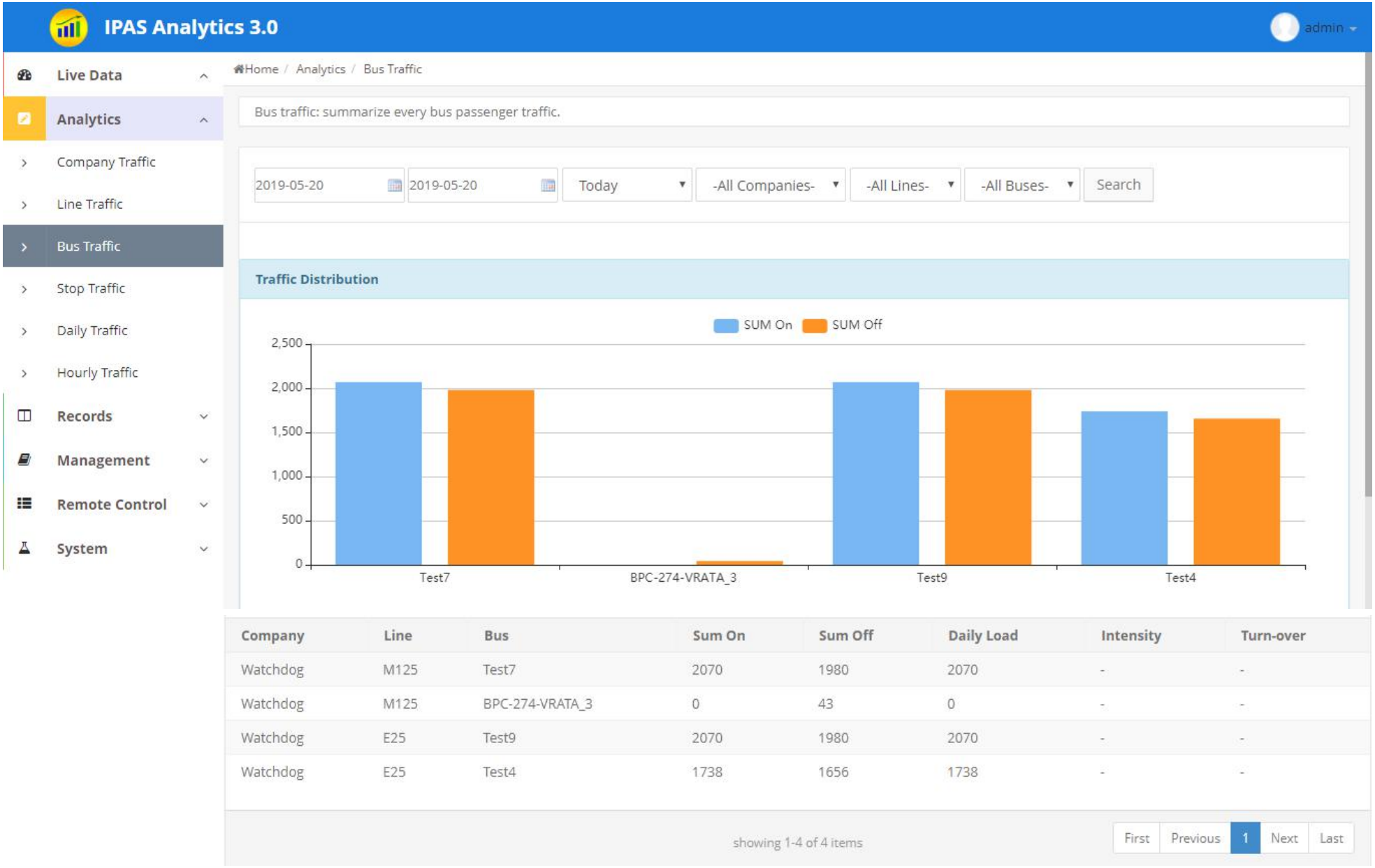




Company	Line	Sum On	Sum Off	Daily Load	Intensity	Turnovwer Rate	
Watchdog	M125	2070	2023	2070	-	-	-
Watchdog	E25	5878	5616	5878	-	-	-

showing 1-2 of 2 items

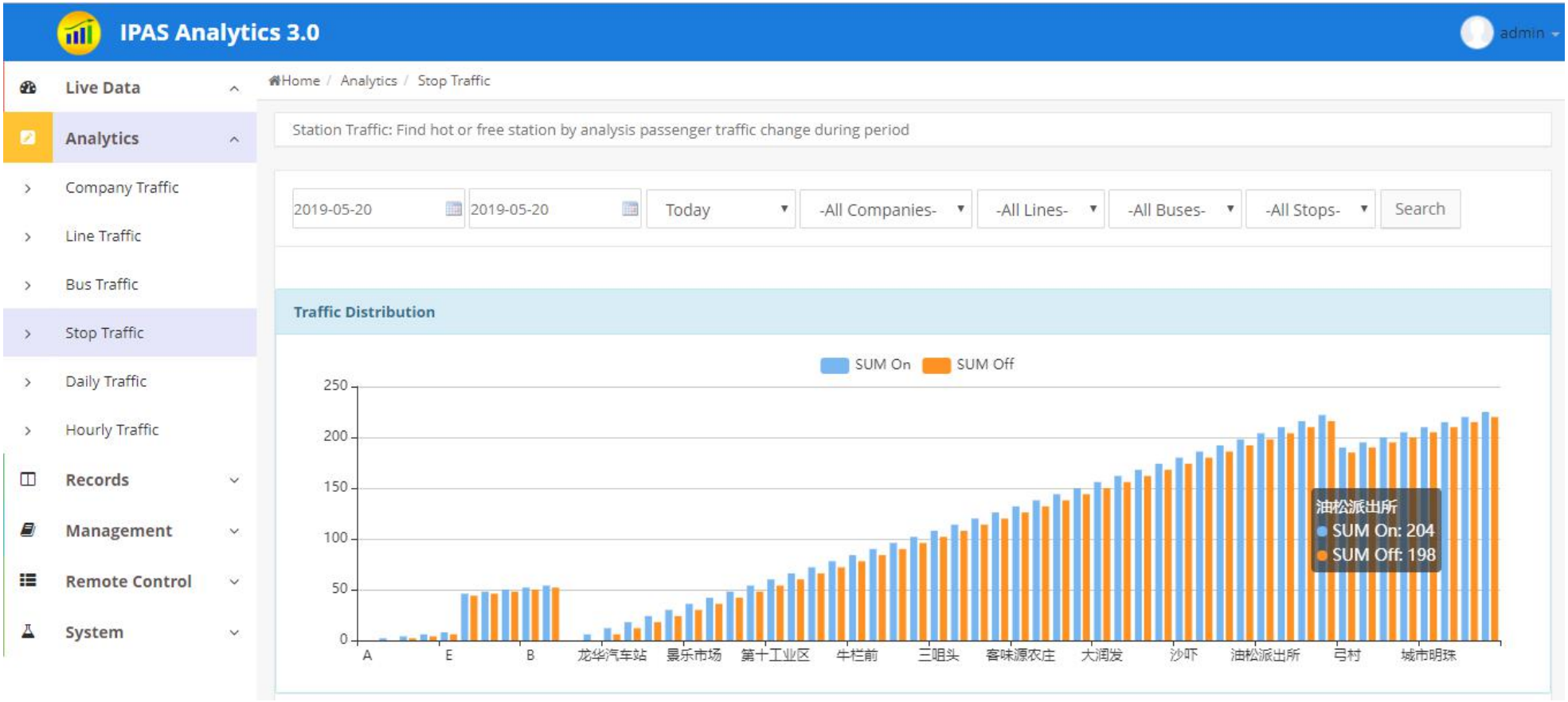
First Previous 1 Next Last



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

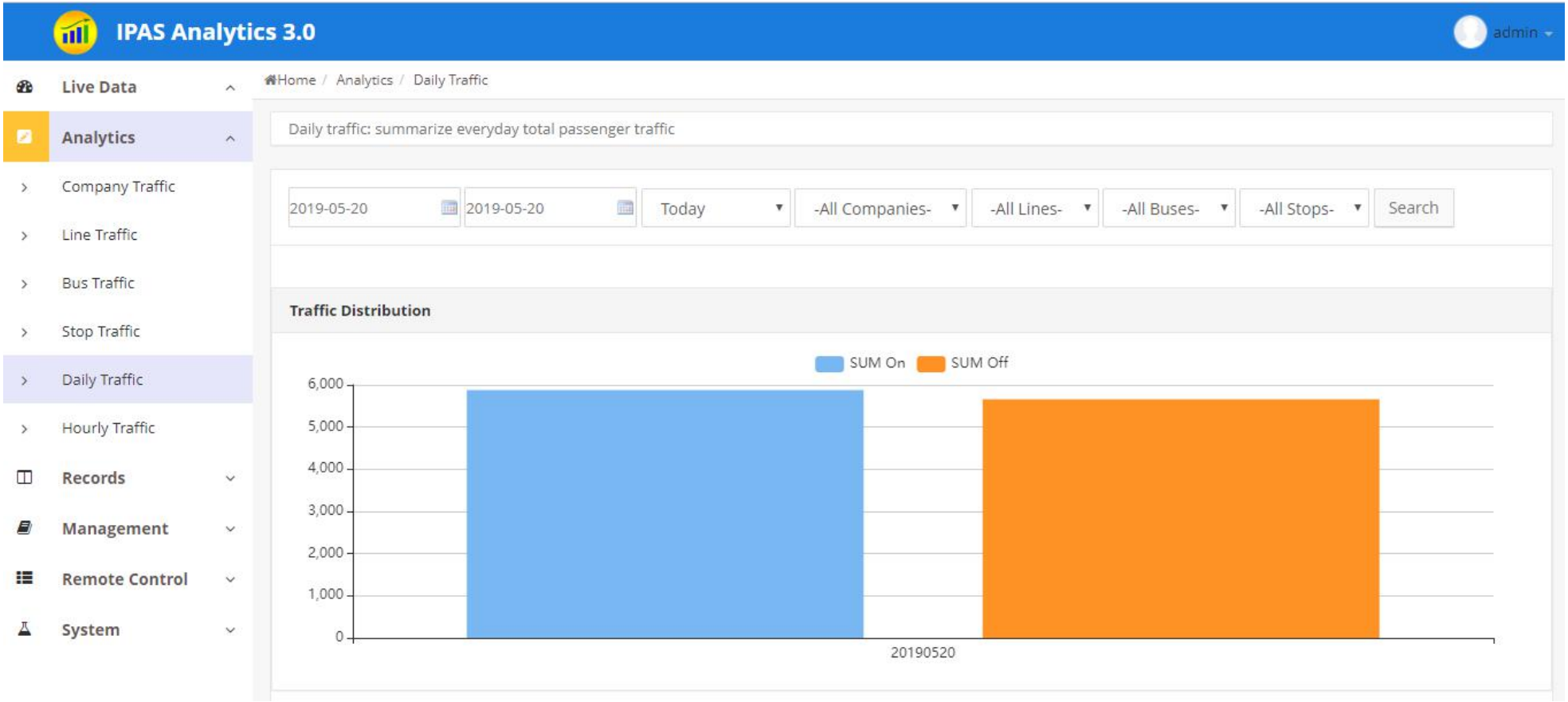
First Previous 1 Next Last

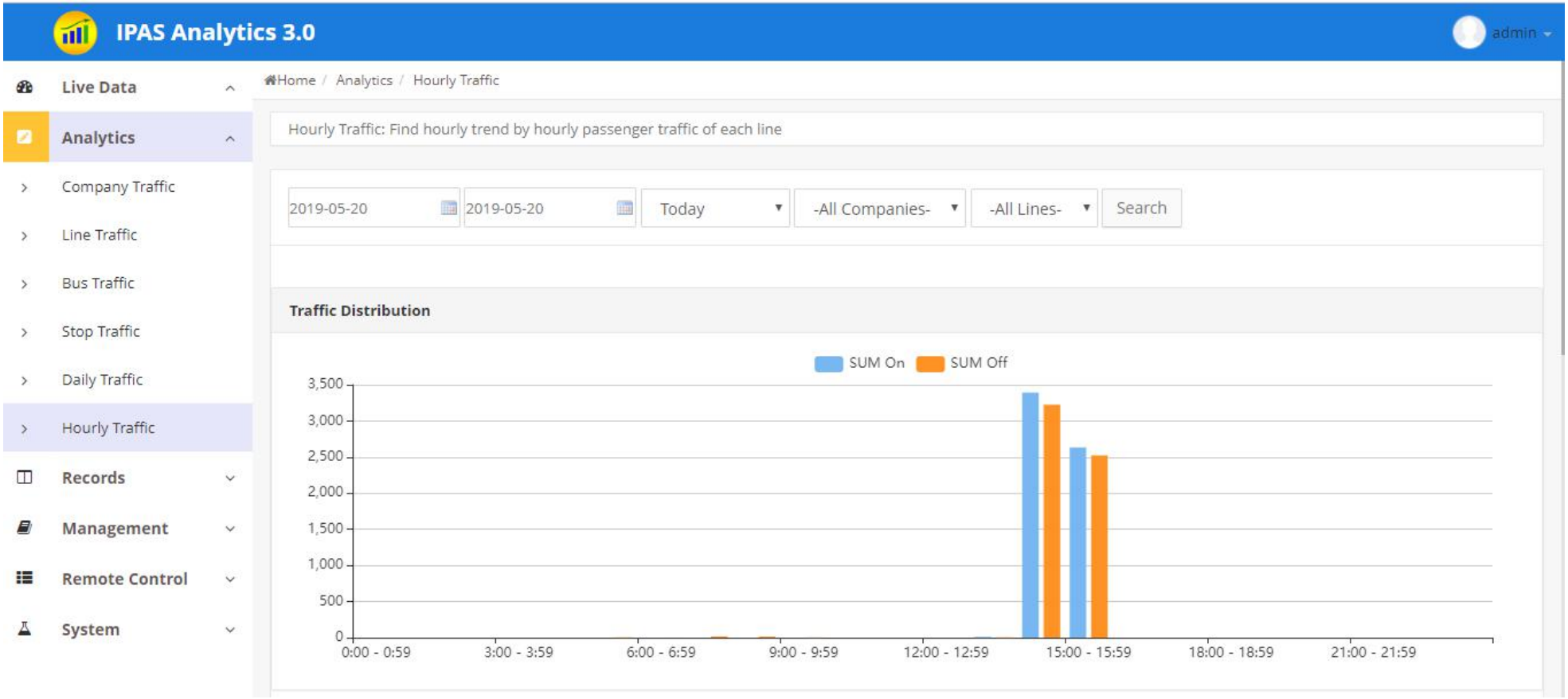

IPAS Analytics 3.0
admin
Live Data
Analytics
Company Traffic
Line Traffic
Bus Traffic
Stop Traffic
Daily Traffic
Hourly Traffic
Records
Management
Remote Control
System
Home / Analytics / Stop Traffic
Station Traffic: Find hot or free station by analysis passenger traffic change during period
2019-05-20
2019-05-20
Today
-All Companies-
-All Lines-
-All Buses-
-All Stops-
Search
Traffic Distribution
SUM On
SUM Off
250
200
150
100
50
0
油松派出所
SUM On: 204
SUM Off: 198
A
E
B
龙华汽车站
景乐市场
第十工业区
牛栏前
三咀头
客味源农庄
大润发
沙吓
油松派出所
弓村
城市明珠

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


IPAS Analytics 3.0
admin
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
SUM On
SUM Off
6,000
5,000
4,000
3,000
2,000
1,000
0
20190520


IPAS Analytics 3.0
admin
Live Data
Analytics
Company Traffic
Line Traffic
Bus Traffic
Stop Traffic
Daily Traffic
Hourly Traffic
Records
Management
Remote Control
System
Home / Analytics / Hourly Traffic
Hourly Traffic: Find hourly trend by hourly passenger traffic of each line
2019-05-20
2019-05-20
Today
-All Companies-
-All Lines-
Search
Traffic Distribution
SUM On
SUM Off
3,500
3,000
2,500
2,000
1,500
1,000
500
0
0:00 - 0:59
3:00 - 3:59
6:00 - 6:59
9:00 - 9:59
12:00 - 12:59
15:00 - 15:59
18:00 - 18:59
21:00 - 21:59

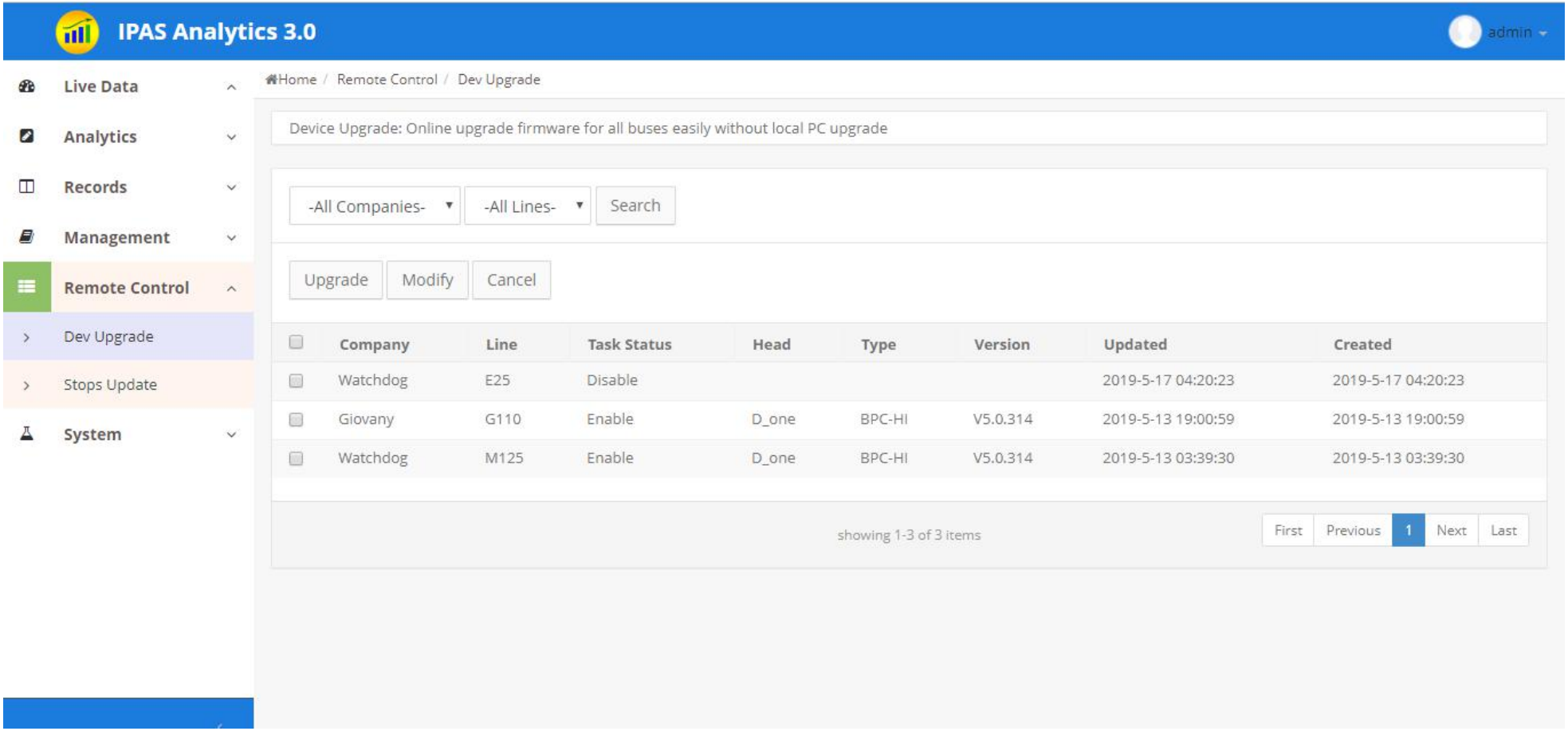
8	0	15	0	0
9	0	4	0	0
10	0	0	0	0
11	0	0	0	0
12	0	0	0	0
13	12	6	1.5	0
14	3393	3225	32.9417	0
15	2633	2523	30.9765	0
16	0	0	0	0
17	0	0	0	0
18	0	0	0	0
19	0	0	0	0
20	0	0	0	0
21	0	0	0	0
22	0	0	0	0
23	0	0	0	0

showing 0-23 of 24 items

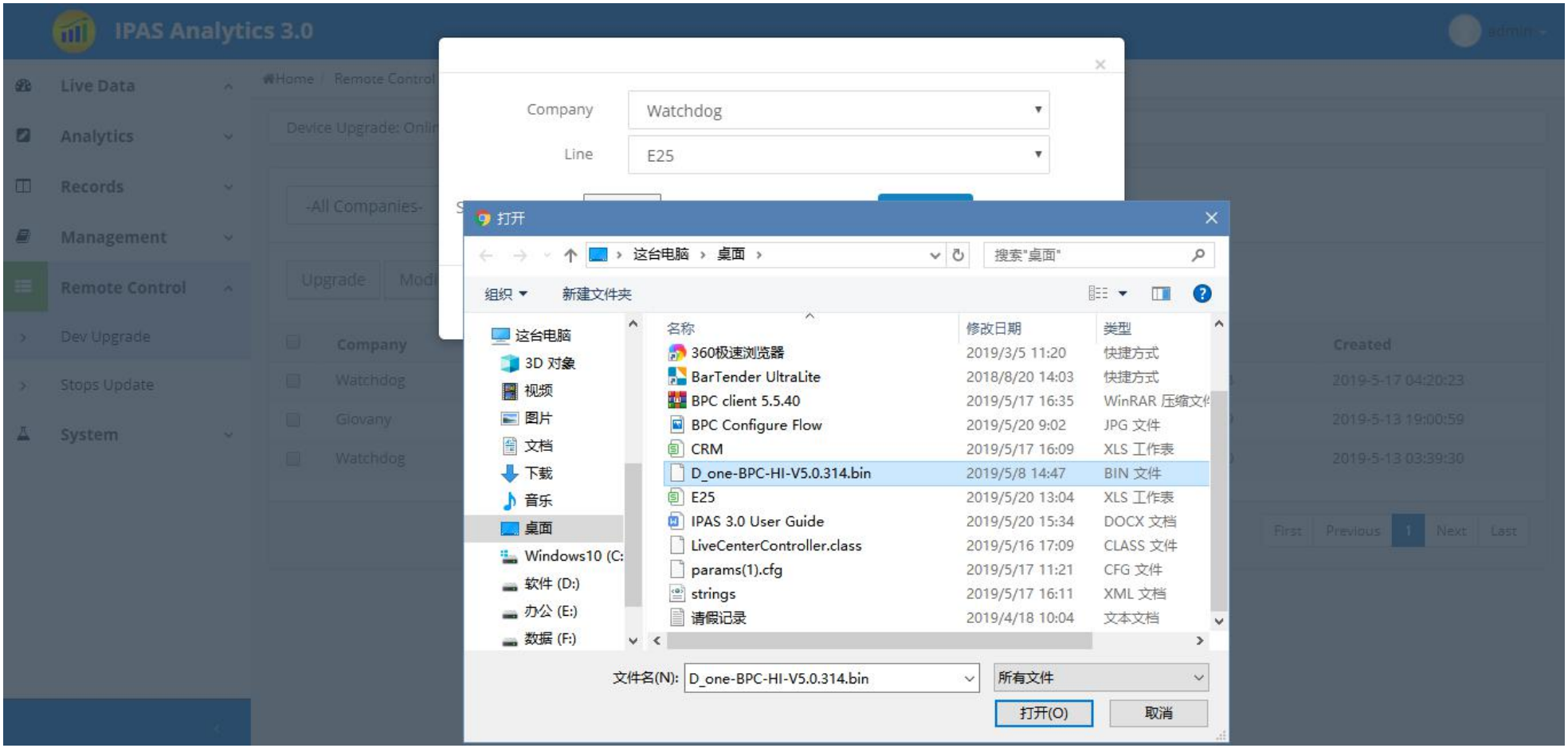
First Previous 1 Next Last

Remote Control

1. Device Upgrade

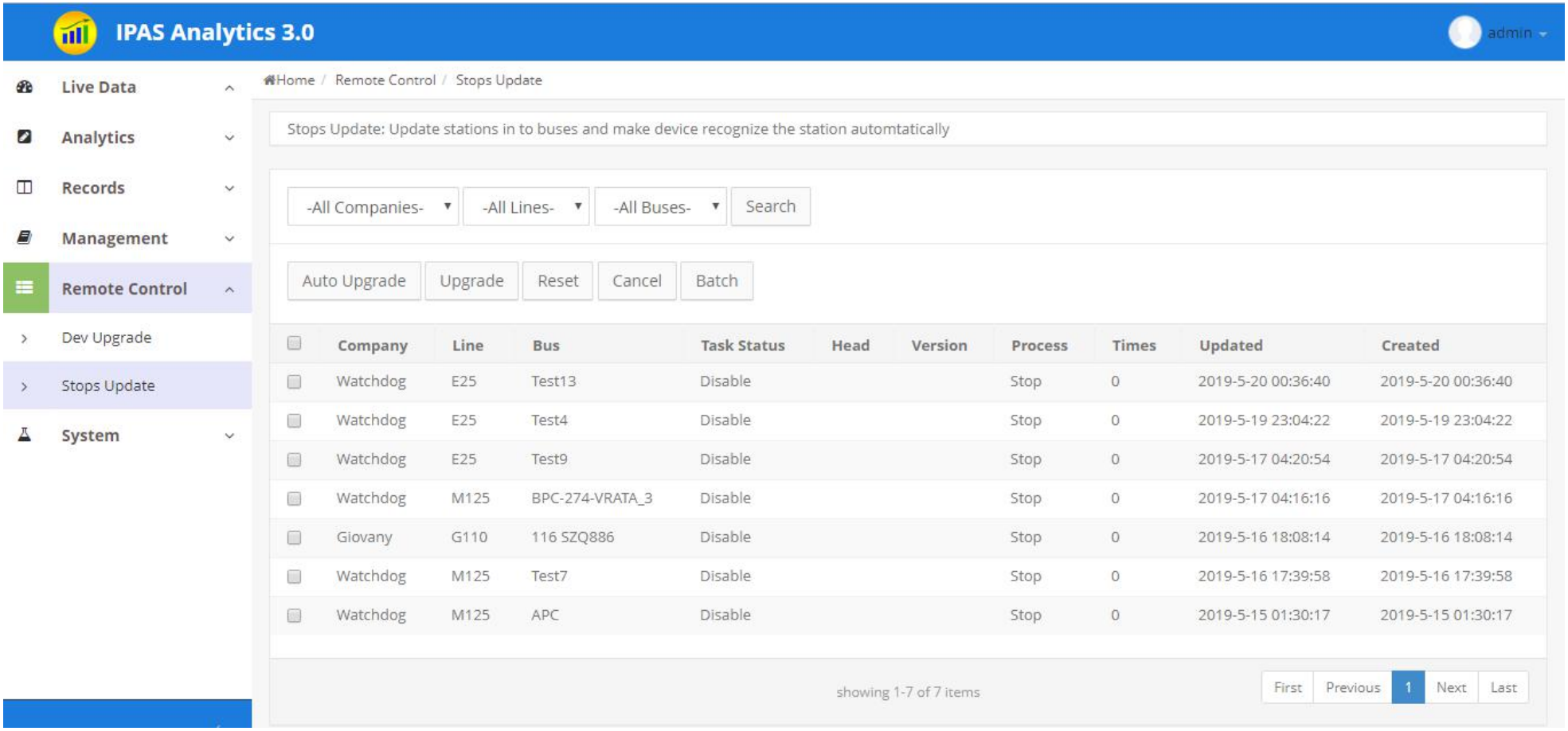


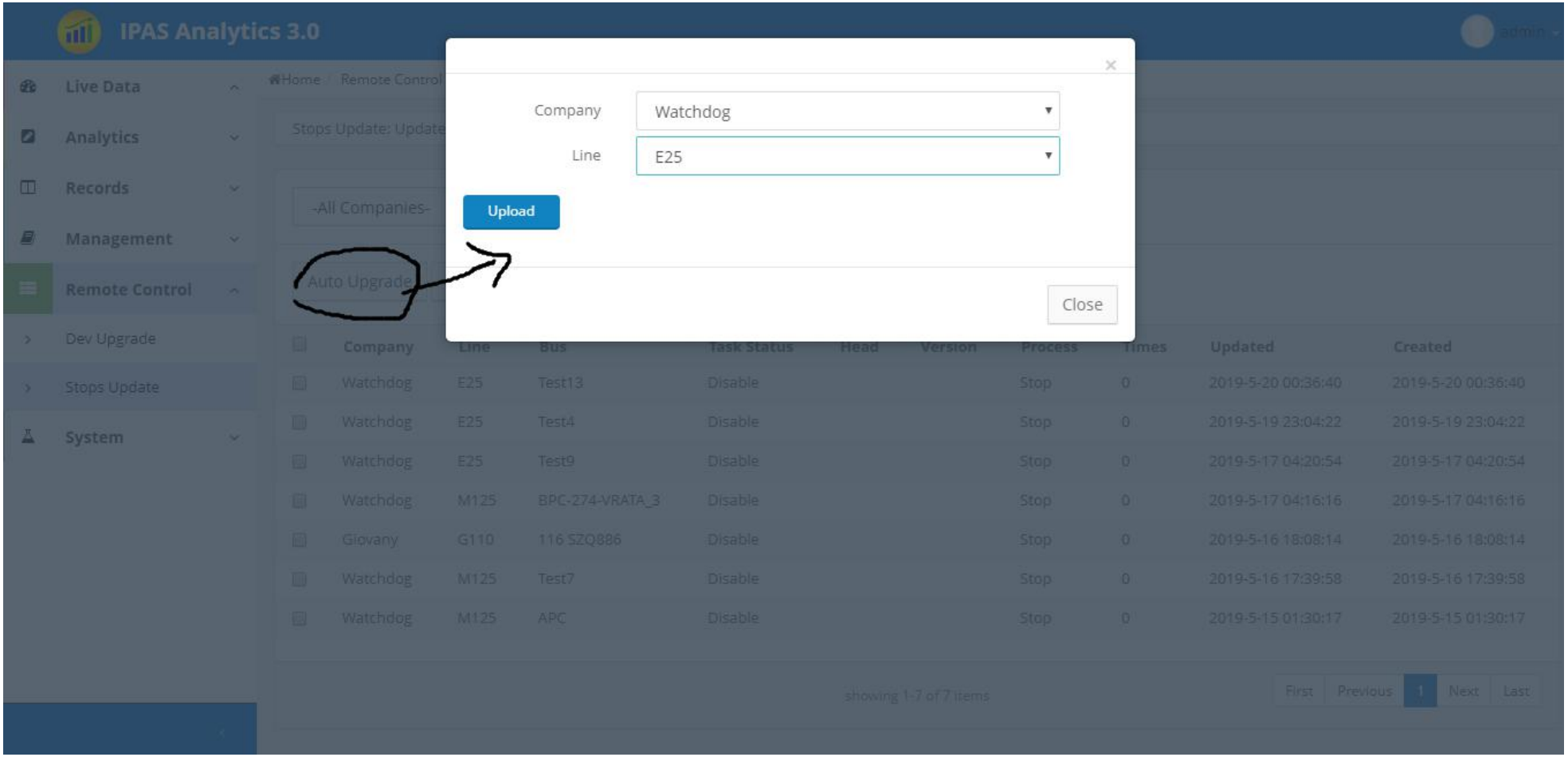
Click Update to select new firmware to upload first. When buses of this line get online, server will ask all of them upgrade.
You can modify or cancel this upgrading task.


IPAS Analytics 3.0
Live Data
Analytics
Records
Management
Remote Control
Dev Upgrade
Stops Update
System
Company
Watchdog
Line
E25
打开
这台电脑 › 桌面 ›
搜索"桌面"
组织
新建文件夹
这台电脑
3D 对象
视频
图片
文档
下载
音乐
桌面
Windows10 (C:
软件 (D:)
办公 (E:)
数据 (F:)
名称
修改日期
类型
360极速浏览器 2019/3/5 11:20 快捷方式
BarTender UltraLite 2018/8/20 14:03 快捷方式
BPC client 5.5.40 2019/5/17 16:35 WinRAR 压缩文件
BPC Configure Flow 2019/5/20 9:02 JPG 文件
CRM 2019/5/17 16:09 XLS 工作表
D_one-BPC-HI-V5.0.314.bin 2019/5/8 14:47 BIN 文件
E25 2019/5/20 13:04 XLS 工作表
IPAS 3.0 User Guide 2019/5/20 15:34 DOCX 文档
LiveCenterController.class 2019/5/16 17:09 CLASS 文件
params(1).cfg 2019/5/17 11:21 CFG 文件
strings 2019/5/17 16:11 XML 文档
请假记录 2019/4/18 10:04 文本文档
文件名(N): D_one-BPC-HI-V5.0.314.bin
所有文件
打开(O)
取消

2. Stops Update

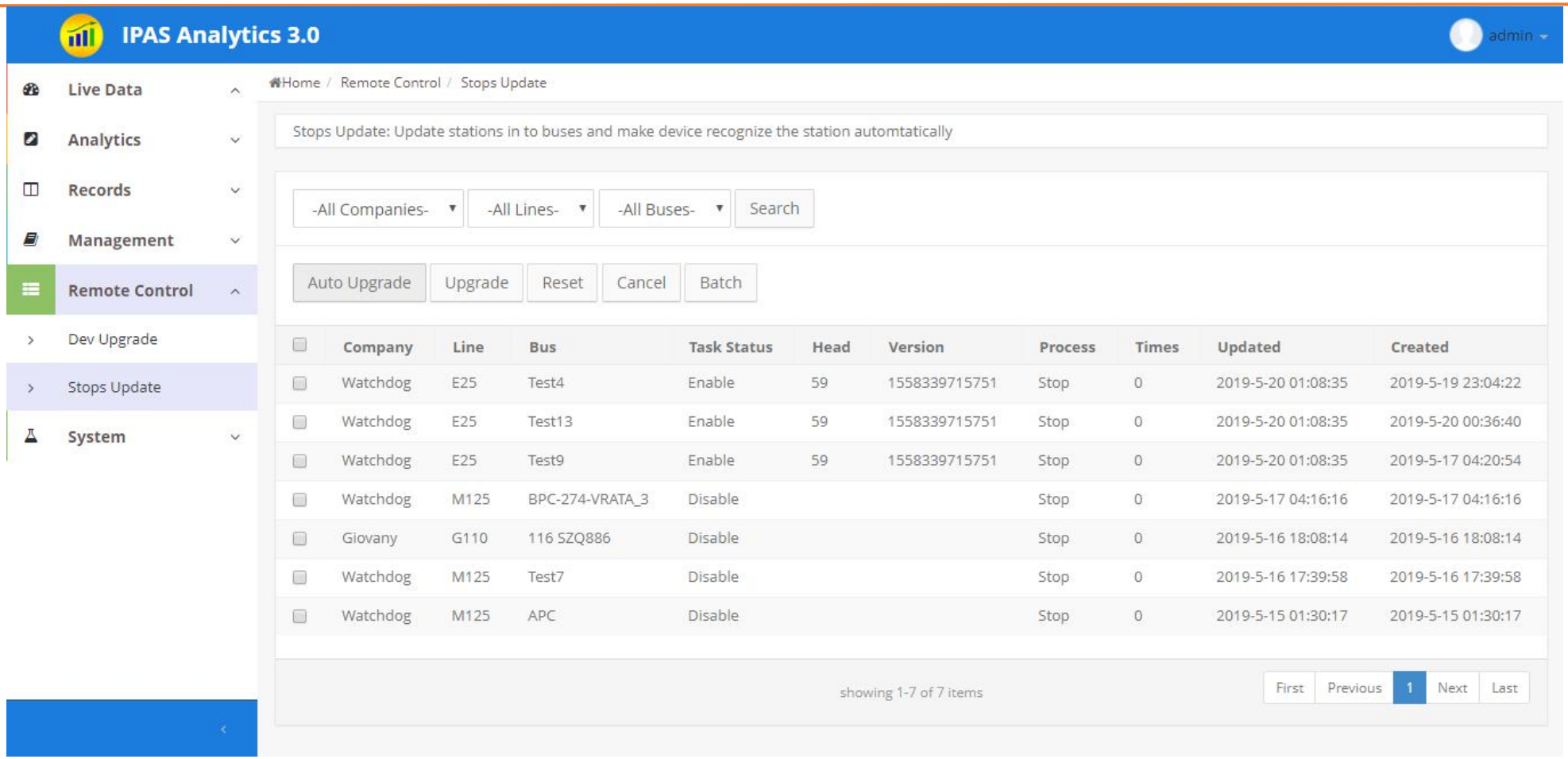
For fast installation in the bus and change bus routes easily, some buses often shift different routes, so it must update its station data. IPAS need to collect data based on lines, so if user needs to shift some buses into new route, they must shift buses into new line in bus management page. Then update 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.




IPAS Analytics 3.0
admin
Live Data
Analytics
Records
Management
Remote Control
Dev Upgrade
Stops Update
System
Home / Remote Control
Stops Update: Update
-All Companies-
Auto Upgrade
Company
Watchdog
Line
E25
Upload
Close
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 SZQ886 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
showing 1-7 of 7 items
First Previous 1 Next Last

End.

Thanks


IPAS Analytics 3.0
admin
Live Data
Analytics
Records
Management
Remote Control
Dev Upgrade
Stops Update
System
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
Company Line Bus Task Status Head Version Process Times Updated Created
Watchdog E25 Test4 Enable 59 1558339715751 Stop 0 2019-5-20 01:08:35 2019-5-19 23:04:22
Watchdog E25 Test13 Enable 59 1558339715751 Stop 0 2019-5-20 01:08:35 2019-5-20 00:36:40
Watchdog E25 Test9 Enable 59 1558339715751 Stop 0 2019-5-20 01:08:35 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 SZQ886 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
showing 1-7 of 7 items
First Previous 1 Next Last