


VTO Manager

Management Solution for VTO (VoIP Traffic Optimizer) Service

AddPac
Smart VoIP Traffic Optimizer



Administrator ID :

Password :

Smart VTO Overview

Total Summary

Total Calls	Success Calls	Call Durations	ACD	ASR	Active Ca
42844	40478	10662:08:37	00:15:48	94.5 %	90

VTO Server Status

No	Name	CPU	Call				Bandwidth (kbps)							
			Active	Connected	Maximum	Available	To Termination		From Termination		Maximum	Rx Usage	Tx Usage	
							Raw	Compressed	Raw	Compressed				
1	172.16.1.23	-	-	-	-	-	-	-	-	-	-	-	-	
2	172.16.8.48	35%	0	0	500	203	29	25	29	25	100,000	54	54	21
3	172.17.114.4	30%	90	90	500	0	206	168	925	349	100,000	555	1,093	21
4	AddPac	-	-	-	-	-	-	-	-	-	-	-	-	-
5	California	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Kangnam	-	-	-	-	-	-	-	-	-	-	-	-	-
7	London	-	-	-	-	-	-	-	-	-	-	-	-	-

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AddPac Technology

Sales and Marketing

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Smart VTO Overview

What`s VTO Manger (Web based VoIP Traffic Optimizer Manager)

- Simple Menu and Easy Configuration
- Server and Client Service Architecture for VTO Managing
- Provides VTO Server and VTO Client Management Service
- Provides Supervisor Mode for Administration
- Provides User Mode for Each Customer
- Diagnostic tool** to analyze SIP Call flow, current status and problems for VTO Server and Client

System Requirement

VTO Manager Server

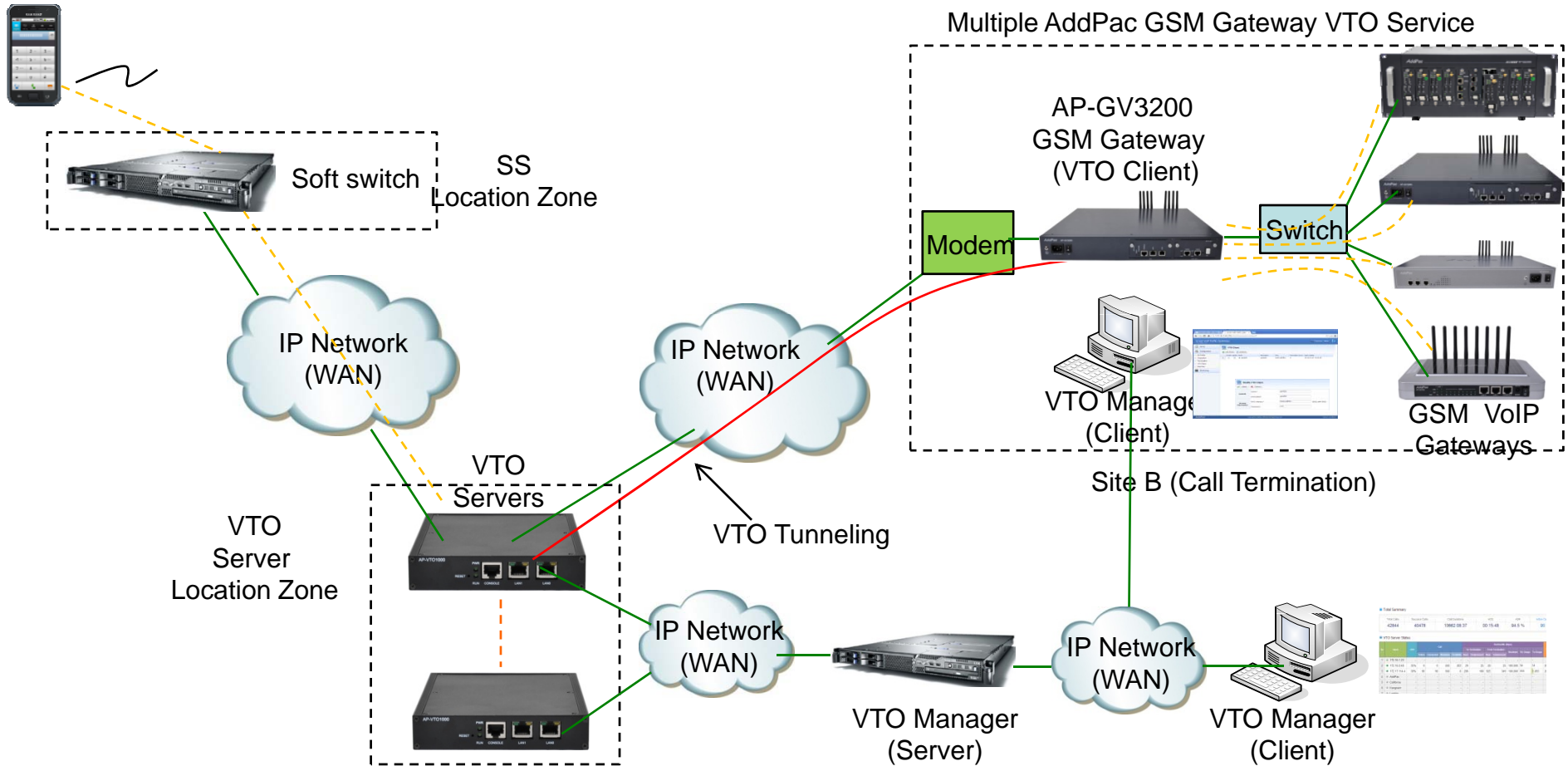
- OS : CentOS 6.5
- CPU : Quad-Core 2.0 GHz / 1333MHz FSB 2x4 MB cache
- Physical Memory : 4 GB
- HDD : 300 G
- PHP 5.5.7
- Apache 2.2.15
- Database : PostgreSQL 9.2.3

VTO Manager Client

- Internet Explorer 9.0 or higher
- Google Chrome 5.0 or higher
- Firefox 2.0 or higher

Network Diagram

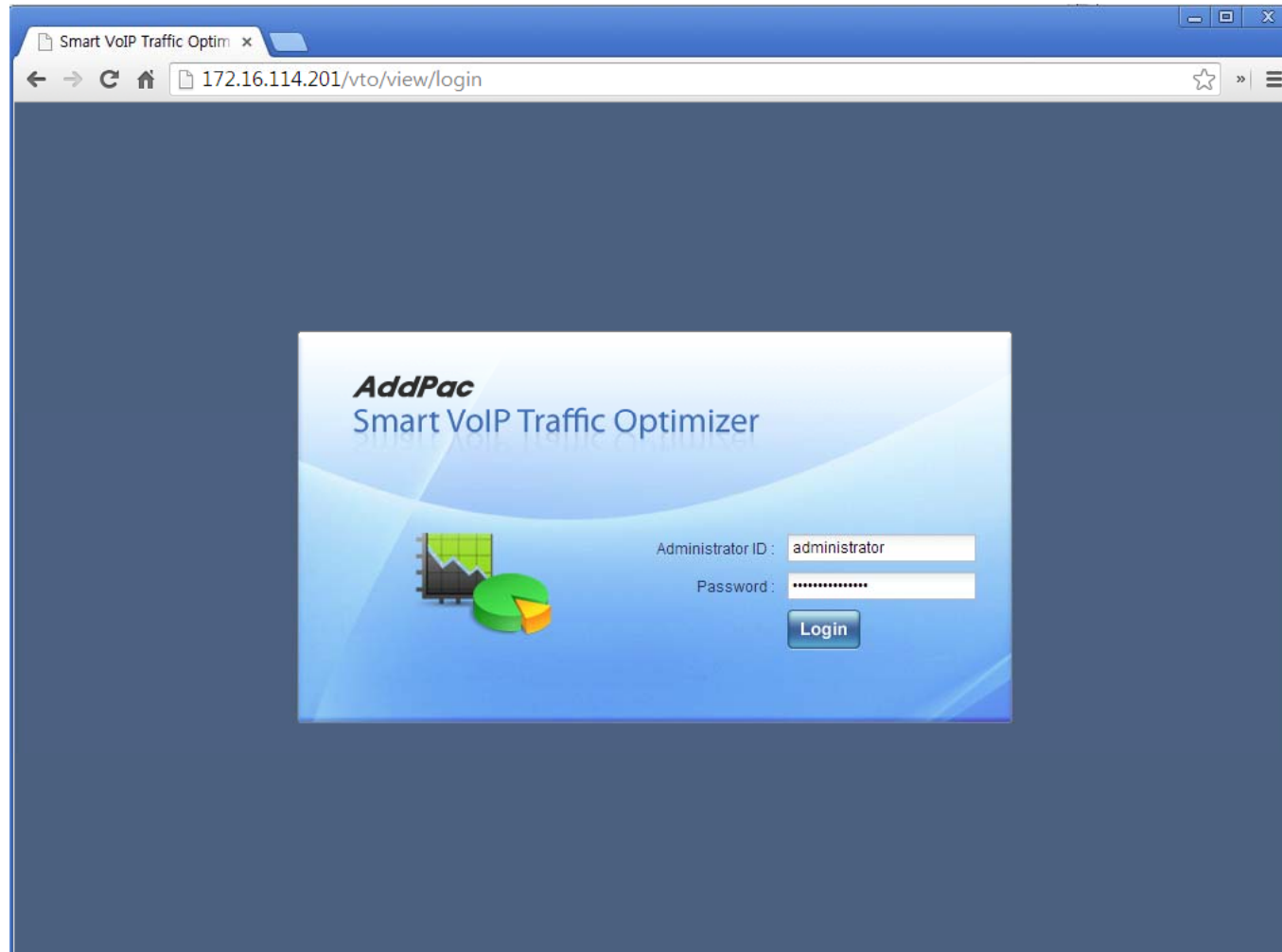
Site A (Call Origination)





Management for Administrator

Login Page for Administrator



System Status View

The screenshot displays the 'Smart VoIP Traffic Optimizer' web interface. The browser address bar shows '172.16.114.201/vto/view/main#'. The page title is 'Smart VoIP Traffic Optimizer' with the URL 'www.addpac.com'. The user is logged in as 'Administrator: root'. The interface includes a navigation menu on the left with sections: Home, Configuration (Customer, VTO Model, VTO Proxy Server, VTO Server), Monitoring, and System. The main content area is divided into several sections:

- Welcome to VoIP Traffic Optimizer:** Shows the user 'root (Administrator)' and their last login time: 'Last Login at Feb 7, 2:47 PM by root(172.16.1.19)'.
- Unread Alarm Message:** A notification box with 3 unread messages:
 - VTO server[vs_1] service down... (2014-01-28 09:17:18)
 - VTO client[vc_2] out of service... (2014-01-28 09:17:18)
 - customer'imran' service has expired... (2014-01-09 11:15:57)
- Total Summary:** A table showing overall system performance.

Total Calls	Success Calls	Call Durations	ACD	ASR	Active Calls	Connected Calls
72604	67150	10939:04:20	00:09:46	92.5 %	233	233
- VTO Server Status:** A detailed table listing server configurations and performance metrics.

No	Name	CPU	Call				Bandwidth (kbps)					Service Changed Time	System Up Time		
			Active	Connected	Maximum	Available	To Termination		From Termination		Maximum			Rx Usage	Tx Usage
1	172.16.1.23	-	-	-	-	-	-	-	-	-	-	-	-	2014-02-10 12:11:25	-
2	172.16.8.48	35%	0	0	500	203	29	25	29	25	100,000	54	54	2014-02-10 17:37:01	1 day 09:04:50
3	172.17.114.4	30%	233	233	500	0	218	176	938	359	100,000	577	1,115	2014-02-10 19:20:38	1 day 08:29:54
4	AddPac	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	California	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	Kangnam	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	London	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	New_York	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	Sanghae	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Singapore	-	-	-	-	-	-	-	-	-	-	-	-	-	-
- Active / Connected Calls:** A bar chart showing the number of active and connected calls. The y-axis ranges from 150 to 250. The active calls bar is approximately 233, and the connected calls bar is also approximately 233.

show call summary in 24 hours & active calls

show the system events to acknowledge.

show overall VTO server status such as service status, call summary, active call and network bandwidth usage per VTO server

Customer Management

The screenshot displays the 'Smart VoIP Traffic Optimizer' web interface. The main area shows a 'Customer' management page with a search bar and a table of customer records. A modal window is open, showing details for a customer named 'bgooChoi'.

Customer Management Table:

	Modify	Delete	Service	Page	ID	Name	Status	Expiration Days Left	Call Capacity	VTO Server	Description
1	[icon]	[icon]	[icon]	[icon]	bgchoi	bgooChoi	In Service	12	300	LA	
2	[icon]	[icon]	[icon]	[icon]	dwlee	dwlee	In Service	135	4096	172.17.114.4	dwlee
3	[icon]	[icon]	[icon]	[icon]	jhwon	bruce	In Service	12	300	New_York	
4	[icon]	[icon]	[icon]	[icon]	jschoi	jsChoi	Service Expired		300	sebu	research
5	[icon]	[icon]	[icon]	[icon]	shlee	James	Service Halted	12	300	California	
6	[icon]	[icon]	[icon]	[icon]	sylee	brottCambel	In Service	51	300	London	
					vip	vip_customer	Service Expired		300	AddPac	vip customer
					wykim	Sujan	In Service	12	300	Sanghae	
					yeoksam	localManager	In Service	11	300	Kangnam	
					yslee	yslee	In Service	11	297	172.16.8.48	

Customer Information Modal (bgooChoi):

- Information:** Name: bgooChoi, Registered Date: 2014-01-24, Renewed Date: [blank], Expiration Date: 2014-02-23 (12 days left to expire)
- Renew:** Adjust or update expiration date. Options: Adjust expired datetime (2014-03-25), Add a package (1 Month). Buttons: Renew Service.
- Service:** Enable or disable a customer service. Button: Hold Service.

search customer with various filter condition

show customer's current service status, expiration date and call capacity

Administrator can adjust customer's expiration date or service package and temporarily hold or resume the service

Customer Management (cont'd)

Smart VoIP Traffic Optimizer
www.addpac.com

Home
Configuration
Customer
VTO Model
VTO Proxy Server
VTO Server
Monitoring
System

Modify Customer

Apply Cancel

General	Name *	bgooChoi
	Description	local director
	Email	bgchoi@company.com
	Home Phone	
	Mobile	01012344855
Account	ID *	bgchoi
	Password *
Service	VTO Server *	LA
	Signaling Port *	5060 (1-65535)
Policy	Call Capacity	300
	Max VTO Client	30
Access List	+ Add	
	Delete	Allow IP Address
	61.33.192.52	
	61.33.192.73	

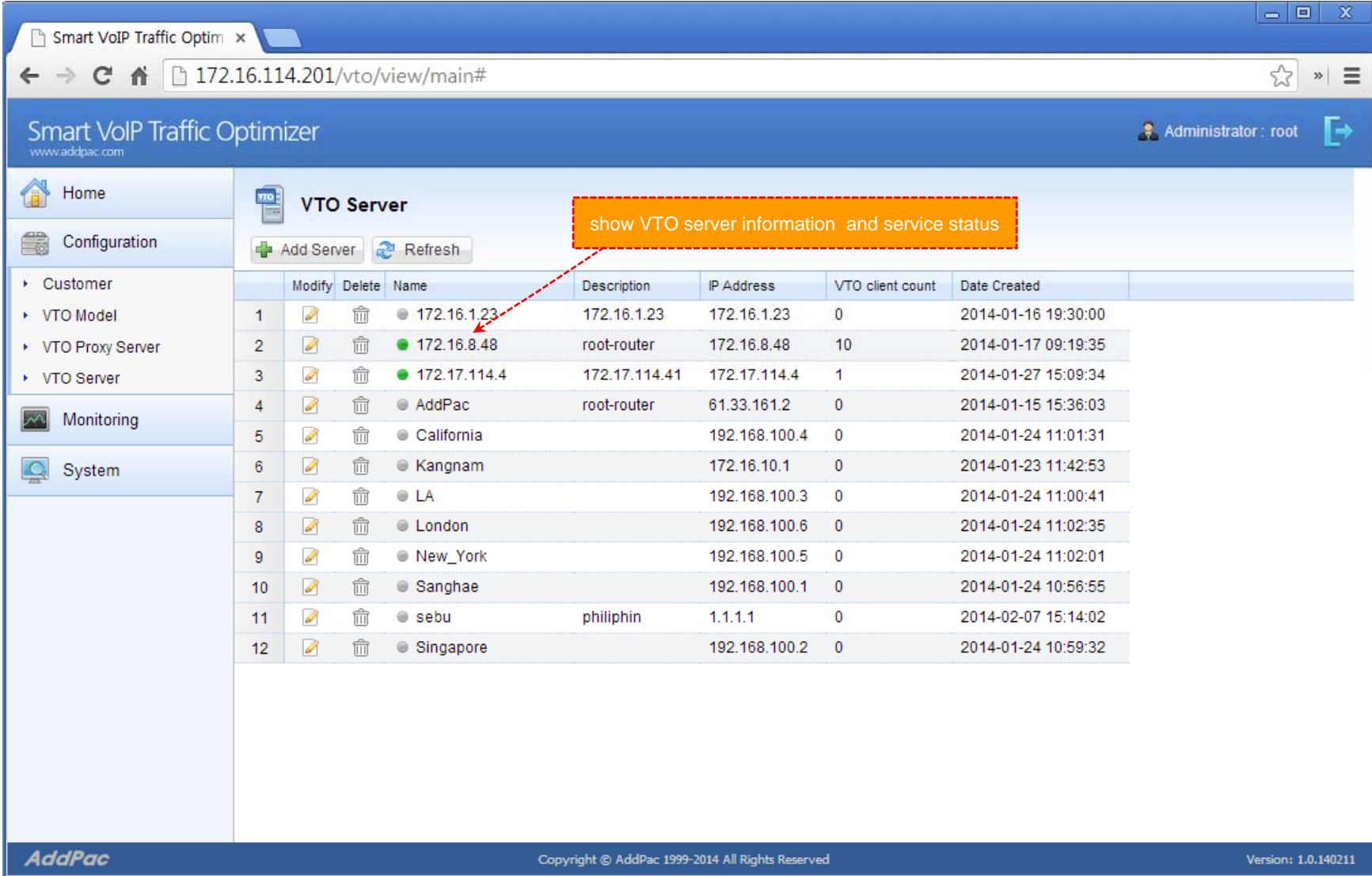
specify the VTO server & port to service which is related to a Origination (softswitch)

set the customer service limit for call and VTO client

If no access list is specified, customer can access VTO manager from anywhere.
If you specify access list, access can be allowed from the specified IP and elsewhere are denied.

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VTO Server Management



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Administrator: root

VTO Server

+ Add Server Refresh

	Modify	Delete	Name	Description	IP Address	VTO client count	Date Created
1			172.16.1.23	172.16.1.23	172.16.1.23	0	2014-01-16 19:30:00
2			172.16.8.48	root-router	172.16.8.48	10	2014-01-17 09:19:35
3			172.17.114.4	172.17.114.41	172.17.114.4	1	2014-01-27 15:09:34
4			AddPac	root-router	61.33.161.2	0	2014-01-15 15:36:03
5			California		192.168.100.4	0	2014-01-24 11:01:31
6			Kangnam		172.16.10.1	0	2014-01-23 11:42:53
7			LA		192.168.100.3	0	2014-01-24 11:00:41
8			London		192.168.100.6	0	2014-01-24 11:02:35
9			New_York		192.168.100.5	0	2014-01-24 11:02:01
10			Sanghae		192.168.100.1	0	2014-01-24 10:56:55
11			sebu	philiphin	1.1.1.1	0	2014-02-07 15:14:02
12			Singapore		192.168.100.2	0	2014-01-24 10:59:32

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VTO Server Management

Smart VoIP Traffic Optimizer
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Home
Configuration
Customer
VTO Model
VTO Proxy Server
VTO Server
Monitoring
System

Add VTO Server
Apply Cancel

General

Name * VTO_server
Description
ID * root
Password *
Model * VTO-2000S
IP Type Static IP Dynamic IP

Server Information

Service IP Address * 61.33.192.34
Server IP Address 61.33.192.33
Managing IP Address 192.168.10.1
Service Port * 4000
VTO Proxy Server N/A
Maximum Bandwidth * 100000 kbps
Maximum Call 500 by model

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specify the VTO server's model which has a max call capacity

choose the IP type for this VTO server to service.

If static IP type selected, then you can specify two public IP address and one managing IP address.

If Dynamic IP type selected, then you can specify the Proxy server.

set the limit of network bandwidth for call.

VTO maximum call is automatically set to minimum value between the maximum bandwidth and the model's maximum call capacity.

Proxy Server Management

Smart VoIP Traffic Optimizer
www.addpac.com

Administrator: root

VTO Proxy Server

[Add Server](#) [Refresh](#)

	Modify	Delete	Name	Description	IP Address	Signaling Port	Date Created
1			VTO-MGR-5061	proxy manager udp 5061	172.16.104.201	5061	2014-02-10 15:23:43
2			VTP-3000	proxy server 3000	172.16.19.185	5060	2014-02-07 11:15:43
3			VTP-MGR-5060	Proxy manager udp 5060	172.16.114.201	5060	2014-02-07 11:13:44

show VTO proxy servers which are used for the VTO server configuration with IP type "dynamic IP"

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CDR View

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Administrator: root

CDR

From: 2014-02-01 To: 2014-02-11 Type: Calling Number Search Word: Search Advanced Search

Summary

Total Calls	937393	ASR	97 %
Connected Calls	908164	ACD	00:02:55
Total Duration	44271:19:53		

ID	Start Time	Connected Time	End Time	Duration	Calling Number	Called Number	Origination	Termination
1133526	2014-02-10 20:48:20	2014-02-10 20:48:20	2014-02-10 20:49:20	00:01:00	1234	21000	sipp_5061	mg3000_a
1133525	2014-02-10 20:48:19	2014-02-10 20:48:19	2014-02-10 20:49:19	00:01:00	1234	21000	sipp_5061	mg3000_a
1133524	2014-02-10 20:48:19	2014-02-10 20:48:19	2014-02-10 20:49:19	00:01:00	1234	21000	sipp_5061	mg3000_a
1133523	2014-02-10 20:48:19	2014-02-10 20:48:19	2014-02-10 20:49:19	00:01:00	1234	21000	sipp_5061	mg3000_a
1133522	2014-02-10 20:48:18	2014-02-10 20:48:18	2014-02-10 20:49:18	00:01:00	1234	21000	sipp_5061	mg3000_a
1133521	2014-02-10 20:48:18	2014-02-10 20:48:18	2014-02-10 20:49:18	00:01:00	1234	21000	sipp_5061	mg3000_a
1133520	2014-02-10 20:48:18	2014-02-10 20:48:18	2014-02-10 20:49:18	00:01:00	1234	21000	sipp_5061	mg3000_a
1133519	2014-02-10 20:48:17	2014-02-10 20:48:17	2014-02-10 20:49:17	00:01:00	1234	21000	sipp_5061	mg3000_a
1133518	2014-02-10 20:48:17	2014-02-10 20:48:17	2014-02-10 20:49:17	00:01:00	1234	21000	sipp_5061	mg3000_a
1133517	2014-02-10 20:48:17	2014-02-10 20:48:17	2014-02-10 20:49:17	00:01:00	1234	21000	sipp_5061	mg3000_a
1133516	2014-02-10 20:48:16	2014-02-10 20:48:16	2014-02-10 20:49:16	00:01:00	1234	21000	sipp_5061	mg3000_a
1133515	2014-02-10 20:48:16	2014-02-10 20:48:16	2014-02-10 20:49:16	00:01:00	1234	21000	sipp_5061	mg3000_a
1133514	2014-02-10 20:48:16	2014-02-10 20:48:16	2014-02-10 20:49:16	00:01:00	1234	21000	sipp_5061	mg3000_a
1133513	2014-02-10 20:48:15	2014-02-10 20:48:15	2014-02-10 20:49:15	00:01:00	1234	21000	sipp_5061	mg3000_a
1133512	2014-02-10 20:48:15	2014-02-10 20:48:15	2014-02-10 20:49:15	00:01:00	1234	21000	sipp_5061	mg3000_a
1133511	2014-02-10 20:48:15	2014-02-10 20:48:15	2014-02-10 20:49:15	00:01:00	1234	21000	sipp_5061	mg3000_a

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CDR Statistics

show CDR statistics such as ASR, ACD, total calls and success calls between start datetime and end datetime in hourly basis.

Date	Hour	Duration	Origin	Termination	ASR(%)	ACD	Total Calls	Success Calls	Fail Calls				
									Busy	No Answer	Reject	Etc	Total
2014-02-10	21:00	124:54:27	sipp_5061	mg3000_a	100	00:00:56	8008	8008	0	0	0	0	0
2014-02-10	20:00	1498:46:11	sipp_5061	mg3000_a	99	00:08:27	10722	10631	0	0	0	179	179
2014-02-10	18:00	144:10:43	sipp_5061	mg3000_a	100	00:00:48	10658	10658	0	0	0	0	0
2014-02-10	17:00	45:48:11	sipp_5061	mg3000_a	100	00:00:15	10800	10800	0	0	0	0	0
2014-02-10	15:00	45:43:45	sipp_5061	mg3000_a	100	00:00:15	10798	10798	0	0	0	0	0
2014-02-10	14:00	45:48:40	sipp_5061	mg3000_a	100	00:00:15	10800	10800	0	0	0	0	0
2014-02-10	13:00	45:39:34	sipp_5061	mg3000_a	100	00:00:15	10798	10798	0	0	0	0	0
2014-02-10	12:00	51:14:37	sipp_5061	mg3000_a	100	00:00:17	10800	10800	0	0	0	0	0
2014-02-10	11:00	62:39:33	sipp_5061	mg3000_a	100	00:00:20	10801	10801	0	0	0	0	0
2014-02-10	10:00	102:59:59	sipp_5061	mg3000_a	100	00:00:34	10797	10797	0	0	0	0	0
2014-02-10	09:00	149:45:14	sipp_5061	mg3000_a	100	00:00:49	10801	10801	0	0	0	0	0
2014-02-10	08:00	177:54:47	sipp_5061	mg3000_a	100	00:00:59	10801	10801	0	0	0	0	0
2014-02-10	07:00	177:40:11	sipp_5061	mg3000_a	100	00:00:59	10797	10797	0	0	0	0	0
2014-02-10	06:00	178:30:06	sipp_5061	mg3000_a	100	00:00:59	10801	10801	0	0	0	0	0
2014-02-10	05:00	171:46:26	sipp_5061	mg3000_a	100	00:00:57	10797	10797	0	0	0	0	0
2014-02-10	04:00	1710:06:09	sipp_5061	mg3000_a	79	00:12:15	10549	8365	0	0	0	2098	2098
2014-02-10	03:00	69:23:26	sipp_5061	mg3000_a	88	00:00:26	10800	9473	0	0	0	1325	1325
2014-02-10	02:00	111:29:43	sipp_5061	mg3000_a	52	00:03:07	4080	2138	0	0	0	1677	1677
2014-02-10	01:00	10096:04:55	sipp_5061	mg3000_a	100	00:52:50	11464	11464	0	0	0	0	0
2014-02-10	00:00	173:58:32	sipp_5061	mg3000_a	100	00:00:57	10801	10801	0	0	0	0	0
2014-02-09	23:00	167:56:21	sipp_5061	mg3000_a	100	00:00:55	10798	10798	0	0	0	0	0
2014-02-09	22:00	79:20:16	sipp_5061	mg3000_a	100	00:00:52	5460	5460	0	0	0	0	0
2014-02-08	13:00	149:15:40	sipp_5061	mg3000_a	98	00:01:02	8770	8590	0	0	0	179	179
2014-02-08	12:00	180:00:17	sipp_5061	mg3000_a	100	00:00:50	10801	10801	0	0	0	0	0

Active Calls Monitoring

Smart VoIP Traffic Optimizer
www.addpac.com

Administrator: root

Active Calls

Customer: All | Origination: All | Termination: All | Search

	Drop	Start Time	Customer	Origination	Termination	Calling Number	Called Number	Status	Duration
1	✘	2014-02-10 22:50:23	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:45
2	✘	2014-02-10 22:50:22	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
3	✘	2014-02-10 22:50:22	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
4	✘	2014-02-10 22:50:22	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
5	✘	2014-02-10 22:50:21	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
6	✘	2014-02-10 22:50:21	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
7	✘	2014-02-10 22:50:21	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
8	✘	2014-02-10 22:50:20	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
9	✘	2014-02-10 22:50:20	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
10	✘	2014-02-10 22:50:20	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
11	✘	2014-02-10 22:50:19	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
12	✘	2014-02-10 22:50:19	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
13	✘	2014-02-10 22:50:19	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
14	✘	2014-02-10 22:50:18	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
15	✘	2014-02-10 22:50:18	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
16	✘	2014-02-10 22:50:18	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
17	✘	2014-02-10 22:50:17	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
18	✘	2014-02-10 22:50:17	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
19	✘	2014-02-10 22:50:17	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
20	✘	2014-02-10 22:50:16	dwlee	sipp_5061	mg3000_a	1234	21000	Connected	14:52:52

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VTO Client Status Monitoring

Smart VoIP Traffic Optimizer
www.addpac.com

Administrator : root

VTO Client Status

Search Type: Customer Value: [] Search

	Name	Customer	VTO Server	Termination Count	Call		To Termination (kbps)		From Termination (kbps)		Service Changed Time
					Active	Connected	Raw	Compressed	Raw	Compressed	
1	● ap4820	dwlee	● 172.17.114.4	2	255	255	114	88	110	73	2014-02-11 10:55:15
2	● ap4820	yslee	● 172.16.8.48	1	0	0	0	0	0	0	2014-02-11 10:55:24
3	● gs708	yslee	● 172.16.8.48	1	-	-	-	-	-	-	2014-02-11 10:55:16
4	● gs916	yslee	● 172.16.8.48	1	-	-	-	-	-	-	2014-02-11 10:55:16
5	● gv3200	yslee	● 172.16.8.48	1	-	-	-	-	-	-	2014-02-11 10:55:16
6	● vc_1	bruce	●	0	-	-	-	-	-	-	
7	● vc_2	bruce	●	0	-	-	-	-	-	-	
8	● vc_3	bruce	●	0	-	-	-	-	-	-	
9	● vc_4	bruce	●	0	-	-	-	-	-	-	
10	● vc_4	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:16
11	● vc_5	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:17
12	● vc_5	bruce	●	0	-	-	-	-	-	-	
13	● vc_6	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:17
14	● vc_6	bruce	●	0	-	-	-	-	-	-	
15	● vc_7	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:17
16	● vc_7	bruce	●	0	-	-	-	-	-	-	
17	● vc_8	bruce	●	0	-	-	-	-	-	-	
18	● vc_8	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:17
19	● vc_9	yslee	● 172.16.8.48	0	-	-	-	-	-	-	2014-02-11 10:55:17
20	● vc_9	bruce	●	1	-	-	-	-	-	-	

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Event History

Smart VoIP Traffic Optimizer
www.addpac.com

Administrator: root

Event History

From: 2014-01-01 To: 2014-02-11 Type: Description Search Word: Search Advanced Search Ack Events

ID	Event Time	Level	Category	Description
5	2014-01-28 09:17:18	Error	VTO Server	VTO server[vs_1] service down
6	2014-01-28 09:17:18	Error	VTO Server	VTO client[vc_2] out of service
1	2014-01-23 20:28:47	Information	VTO Server	new VTO server added
3	2014-01-22 18:10:04	Warning	VTO Server	max call limit exceeded in VTO server [#1]
4	2014-01-15 15:45:22	Warning	VTO Server	dial plan modified
2	2014-01-09 11:15:57	Critical	VTO Server	customer 'imran' service has expired

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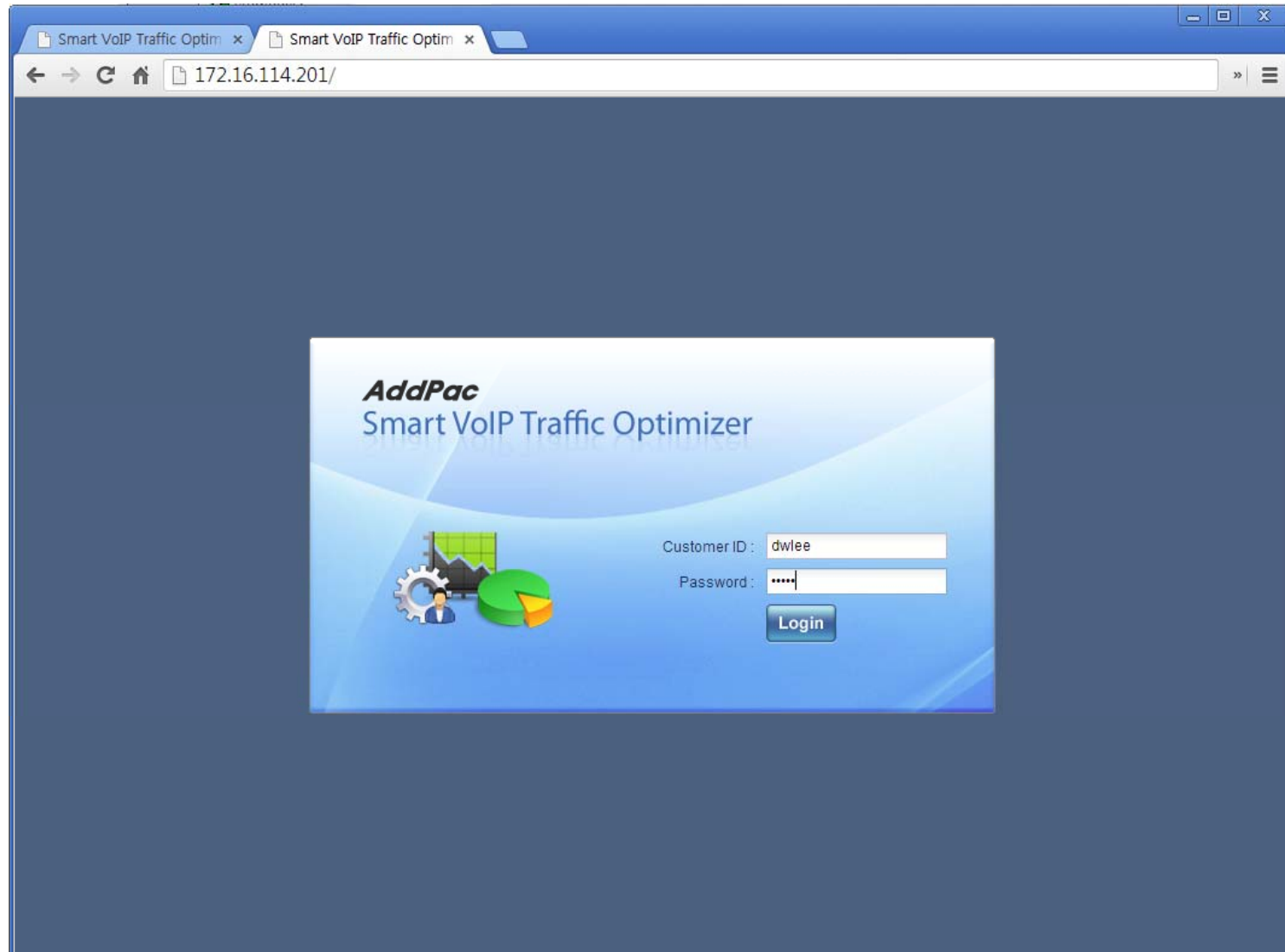
Displaying 1 - 6 of 6

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Management for Customer

Customer Login



Main View (for customer)

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

Welcome to VoIP Traffic Optimizer

dwlee (Customer)
Last Login at Feb 11, 1:59 PM by dwlee(172.16.30.41)

Total Summary

Total Calls	Success Calls	Call Durations	ACD	ASR	Active Calls	Connected Calls
65935	65844	2104:09:59	00:01:55	99.9 %	255	255

* Total Calls ~ ASR : In 24 hours
* Active / Connected Calls : Current

VTO Client Status

No	Name	Active Calls	Connected Calls	To Termination (kbps)		From Termination (kbps)		Service Changed Time
				Raw	Compressed	Raw	Compressed	
1	ap4820	255	255	167	114	162	89	2014-02-11 10:55:15
2	gs708	-	-	-	-	-	-	2014-02-11 10:55:16

Active / Connected Calls

display active calls of each VTO client in bar chart for this logged in customer.

show call summary in 24 hours & active calls

show overall VTO client status such as service status, call summary, active call and network bandwidth usage per VTO client

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My Profile

Smart VoIP Traffic Optimizer
www.addpac.com

Home Configuration

My Profile

Apply Cancel

Section	Field	Value
General	Description	dwlee
	Email	dwlee@company.com
	Home Phone	
	Mobile	
Account	ID *	dwlee
	Password *
Service	VTO Server *	172.17.114.4
	Signaling Port *	5060
Access List	Allow IP Address	61.33.162.35 168.33.120.33
	Call Capacity	4096
License	Registration Date	2014-01-27
	Renewed Date	
	Expiration Date	2014-06-26 (135 days left to expire)

Call Capacity: 4096
Registration Date: 2014-01-27
Renewed Date:
Expiration Date: 2014-06-26 (135 days left to expire)

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show the customer general information and can change some fields.

If no access list is specified, customer can access VTO manager from anywhere.
If you specify access list, access can be allowed from the specified IP and elsewhere are denied.

show current service value for this customer.

Origination Management

The screenshot displays the 'Smart VoIP Traffic Optimizer' web application. The browser address bar shows the URL '172.16.114.201/vto/view/main/jhkwon#'. The page title is 'Smart VoIP Traffic Optimizer' with the website 'www.addpac.com'. The user is logged in as 'Customer: jhkwon'. The left sidebar contains navigation options: Home, Configuration, My Profile, Origination, Termination, VTO Client, Dial Plan, and Monitoring. The main content area is titled 'Origination' and includes 'Add Origination' and 'Refresh' buttons. A table lists two origination entries:

	Modify	Delete	Name	Description	IP Address	Signaling Port	Date Created
1			softswitch_dacom		61.33.192.35	5060	2014-01-27 20:44:07
2			softswitch_KT	KT carrier for softswitch	168.128.63.1	5060	2014-02-11 14:20:30

An orange callout box with a red dashed border contains the text: 'show the origination list to use for this customer and origination means softswitch which connects calls from one phone line to another.' A red dashed arrow points from this box to the second row of the table.

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Termination Management

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

Home
Configuration
My Profile
Origination
Termination
VTO Client
Dial Plan
Monitoring

Termination
Add Termination Refresh

	Modify	Delete	Name	Description	IP Address	Signaling Port	Call Capacity	VTO Client	Date Created
1			ip120	ip120	192.168.10.4	5060	2048	ap4820	2014-01-27 15:29:52
2			mg3000_a	mg3000_a	192.168.10.5	5060	2048	ap4820	2014-01-27 15:24:38

show the terminations such as VOIP gateway and can configure each termination as ip address, signaling port field and limit the maximum call capacity.

Add Termination
Apply Cancel

General
Name * gw_1000
Description

Access Information
IP Address * 192.168.10.2
Signaling Port 5060 (1-65535)
Call Capacity 32
VTO Client * ap4820

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VTO Client Management

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

VTO Client

+ Add Client Refresh

	Modify	Delete	Name	Description	MAC	Termination Count	Date Created
1			ap4820	ap4820	0002.a4ff.ffcc	2	2014-01-27 15:23:52

show the VTO clients which binds to one or more "Terminations".
In other words each "Termination" have a VTO client.
Each VTO client should have a unique MAC address.

Modify VTO Client

Apply Cancel

General	Name *	ap4820
	Description	ap4820
Access Information	MAC Address *	0002.a4ff.ffcc (0002.a4ff.1950)
	Password	*****

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DialPlan Management

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

Dial Plan

+ Add DialPlan Refresh

	Modify	Delete	Service	Dial Pattern	Delete Digits	Add Prefix	Termination	Priority	Description	Date Created
1			Deactivate	1192	0		ip120	0		2014-01-27 15:31:40
2			Deactivate	2T	0		mg3000_a	0		2014-01-27 15:31:22

show the one or more dialplan with dial pattern, digits to delete and prefix to add and also each dialplan have a priority and routes to the specified termination.

each dialplan can be temporarily suspended or reactivated if necessary.

Add Dial Plan

Apply Cancel

General

Dial Pattern * 88T

Delete Digits 2

Add Prefix 07

Description

Routing

Termination * mg3000_a

Priority 0 (0-9)

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CDR View (for Customer)

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

CDR

From: 2014-02-04 To: 2014-02-11 Type: Calling Number Search Word: Search Advanced Search

Summary

Total Calls	872123	ASR	99 %
Connected Calls	865482	ACD	00:02:51
Total Duration	41350:31:15		

call history through search filter condition which includes a calling number, called number and duration information.

ID	Start Time	Connected Time	End Time	Duration	Calling Number	Called Number	Origination	Termination	Fail Reason
1171894	2014-02-11 00:21:56	2014-02-11 00:21:56	2014-02-11 00:22:56	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171893	2014-02-11 00:21:55	2014-02-11 00:21:55	2014-02-11 00:22:55	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171892	2014-02-11 00:21:55	2014-02-11 00:21:55	2014-02-11 00:22:55	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171891	2014-02-11 00:21:55	2014-02-11 00:21:55	2014-02-11 00:22:55	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171890	2014-02-11 00:21:54	2014-02-11 00:21:54	2014-02-11 00:22:54	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171889	2014-02-11 00:21:54	2014-02-11 00:21:54	2014-02-11 00:22:54	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171888	2014-02-11 00:21:54	2014-02-11 00:21:54	2014-02-11 00:22:54	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171887	2014-02-11 00:21:53	2014-02-11 00:21:53	2014-02-11 00:22:53	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171886	2014-02-11 00:21:53	2014-02-11 00:21:53	2014-02-11 00:22:53	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171885	2014-02-11 00:21:53	2014-02-11 00:21:53	2014-02-11 00:22:53	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171884	2014-02-11 00:21:52	2014-02-11 00:21:52	2014-02-11 00:22:52	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171883	2014-02-11 00:21:52	2014-02-11 00:21:52	2014-02-11 00:22:52	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171882	2014-02-11 00:21:52	2014-02-11 00:21:52	2014-02-11 00:22:52	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171881	2014-02-11 00:21:51	2014-02-11 00:21:51	2014-02-11 00:22:51	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171880	2014-02-11 00:21:51	2014-02-11 00:21:51	2014-02-11 00:22:51	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171879	2014-02-11 00:21:51	2014-02-11 00:21:51	2014-02-11 00:22:51	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171878	2014-02-11 00:21:50	2014-02-11 00:21:50	2014-02-11 00:22:50	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171877	2014-02-11 00:21:50	2014-02-11 00:21:50	2014-02-11 00:22:50	00:01:00	1234	21000	sipp_5061	mg3000_a	
1171876	2014-02-11 00:21:50	2014-02-11 00:21:50	2014-02-11 00:22:50	00:01:00	1234	21000	sipp_5061	mg3000_a	

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CDR Statistics (for Customer)

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

CDR Statistics

From: 2014-01-01 To: 2014-02-11
 Origination: All Termination: All Search

Date	Hour	Duration	Origination	Termination	ASR(%)	ACD	Total Calls	Success Calls	Fail Calls				Total
									Busy	No Answer	Reject	Etc	
2014-02-11	00:00	59:57:15	sipp_5061	mg3000_a	100	00:00:49	4334	4334	0	0	0	0	0
2014-02-10	23:00	167:2...	sipp_5061	mg3000_a	100	00:00:55	10800	10800	0	0	0	0	0
2014-02-10	22:00	177:0...	sipp_5061	mg3000_a	100	00:00:59	10798	10798	0	0	0	0	0
2014-02-10	21:00	171:2...	sipp_5061	mg3000_a	100	00:00:57	10799	10799	0	0	0	0	0
2014-02-10	20:00	1498:...	sipp_5061	mg3000_a	99	00:08:27	10722	10631	0	0	0	179	179
2014-02-10	18:00	144:1...	sipp_5061	mg3000_a	100	00:00:48	10658	10658	0	0	0	0	0
2014-02-10	17:00	45:48:11	sipp_5061	mg3000_a	100	00:00:15	10800	10800	0	0	0	0	0
2014-02-10	15:00	45:43:45	sipp_5061	mg3000_a	100	00:00:15	10798	10798	0	0	0	0	0
2014-02-10	14:00	45:48:40	sipp_5061	mg3000_a	100	00:00:15	10800	10800	0	0	0	0	0
2014-02-10	13:00	45:39:34	sipp_5061	mg3000_a	100	00:00:15	10798	10798	0	0	0	0	0
2014-02-10	12:00	51:14:37	sipp_5061	mg3000_a	100	00:00:17	10800	10800	0	0	0	0	0
2014-02-10	11:00	62:39:33	sipp_5061	mg3000_a	100	00:00:20	10801	10801	0	0	0	0	0
2014-02-10	10:00	102:5...	sipp_5061	mg3000_a	100	00:00:34	10797	10797	0	0	0	0	0
2014-02-10	09:00	149:4...	sipp_5061	mg3000_a	100	00:00:49	10801	10801	0	0	0	0	0
2014-02-10	08:00	177:5...	sipp_5061	mg3000_a	100	00:00:59	10801	10801	0	0	0	0	0
2014-02-10	07:00	177:4...	sipp_5061	mg3000_a	100	00:00:59	10797	10797	0	0	0	0	0
2014-02-10	06:00	178:3...	sipp_5061	mg3000_a	100	00:00:59	10801	10801	0	0	0	0	0
2014-02-10	05:00	171:4...	sipp_5061	mg3000_a	100	00:00:57	10797	10797	0	0	0	0	0
2014-02-10	04:00	1710:...	sipp_5061	mg3000_a	79	00:12:15	10549	8365	0	0	0	2098	2098
2014-02-10	03:00	69:23:26	sipp_5061	mg3000_a	88	00:00:26	10800	9473	0	0	0	1325	1325
2014-02-10	02:00	111:2...	sipp_5061	mg3000_a	52	00:03:07	4080	2138	0	0	0	1677	1677
2014-02-10	01:00	10096...	sipp_5061	mg3000_a	100	00:52:50	11464	11464	0	0	0	0	0
2014-02-10	00:00	173:5...	sipp_5061	mg3000_a	100	00:00:57	10801	10801	0	0	0	0	0
2014-02-09	23:00	167:5...	sipp_5061	mg3000_a	100	00:00:55	10798	10798	0	0	0	0	0
2014-02-09	22:00	79:20:16	sipp_5061	mg3000_a	100	00:00:52	5460	5460	0	0	0	0	0
2014-02-08	13:00	149:1...	sipp_5061	mg3000_a	98	00:01:02	8770	8590	0	0	0	179	179

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Active Calls Monitoring (for Customer)

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

Active Calls

Origination: All Termination: All Search

Drop	Start Time	Origination	Termination	Calling Number	Called Number	Status	Duration
1	2014-02-11 00:26:56	sipp_5061	mg3000_a	1234	21000	Connected	14:52:45
2	2014-02-11 00:26:56	sipp_5061	mg3000_a	1234	21000	Connected	14:52:45
3	2014-02-11 00:26:55	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
4	2014-02-11 00:26:55	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
5	2014-02-11 00:26:55	sipp_5061	mg3000_a	1234	21000	Connected	14:52:46
6	2014-02-11 00:26:54	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
7	2014-02-11 00:26:54	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
8	2014-02-11 00:26:54	sipp_5061	mg3000_a	1234	21000	Connected	14:52:47
9	2014-02-11 00:26:53	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
10	2014-02-11 00:26:53	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
11	2014-02-11 00:26:53	sipp_5061	mg3000_a	1234	21000	Connected	14:52:48
12	2014-02-11 00:26:52	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
13	2014-02-11 00:26:52	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
14	2014-02-11 00:26:52	sipp_5061	mg3000_a	1234	21000	Connected	14:52:49
15	2014-02-11 00:26:51	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
16	2014-02-11 00:26:51	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
17	2014-02-11 00:26:51	sipp_5061	mg3000_a	1234	21000	Connected	14:52:50
18	2014-02-11 00:26:50	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
19	2014-02-11 00:26:50	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
20	2014-02-11 00:26:50	sipp_5061	mg3000_a	1234	21000	Connected	14:52:51
21	2014-02-11 00:26:49	sipp_5061	mg3000_a	1234	21000	Connected	14:52:52
22	2014-02-11 00:26:49	sipp_5061	mg3000_a	1234	21000	Connected	14:52:52

monitor current active calls in progress with calling and called party information and can drop the call if necessary.

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VTO Client Status Monitoring (for Customer)

Smart VoIP Traffic Optimizer
www.addpac.com

Customer: dwlee

VTO Client Status

Search Type: Status Value: Search

	Name	VTO Server	Termination Cost	Call		To Termination (kbps)		From Termination (kbps)		Service Changed Time
				Active	Connected	Raw	Compressed	Raw	Compressed	
1	ap4820	172.17.114.4	2	256	255	86	75	85	65	2014-02-11 10:55:15

show VTO client and VTO server current status with network bandwidth information for this customer.

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Thank you!

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