User Guide

optima saver Client Panel

November 2016

Version : 5.0.0

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

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Greetings!!! Welcome to the Optima Saver Client Panel v5.0.0, the most advanced & dynamic panel ever built!!!

We would like to Introduce you with many new and interactive features those have been introduced to Optima Saver Client Panel v5.0.0 supported by the most advanced Optima OS - Optima Saver 5.0.0 Edge puppy which is the minimum requirement for the new features. We will describe the latest features & interface one after another:

1. Home:

Optima Saver Client Panel v5.0.0 got an Informative home page. Here you may see the required information at a glance. Figure 1 is showing the home page as:

1. Server Time is shown with date and time.
2. Server info: Server ip, **Call limit** (*Our previous drawback was our system can handle 128 ports/call limit, now there is no limitation*), **Server Uptime***(each day you must restart the server from utility at your convenient time or you can do it by scheduler , explained in page no 21)*
3. Current calls: Total, Active, Ringing.
4. Today's Statistics: ASR, ACD , Duration.
5. Active Clients: Up(green)>client pc is ip , Down (red+pending)>client pc is down, Down(red)>communication between server and client pc is being interrupted e.g. by ISP net blocking.
6. Optima Saver Client Panel V5.0.0.

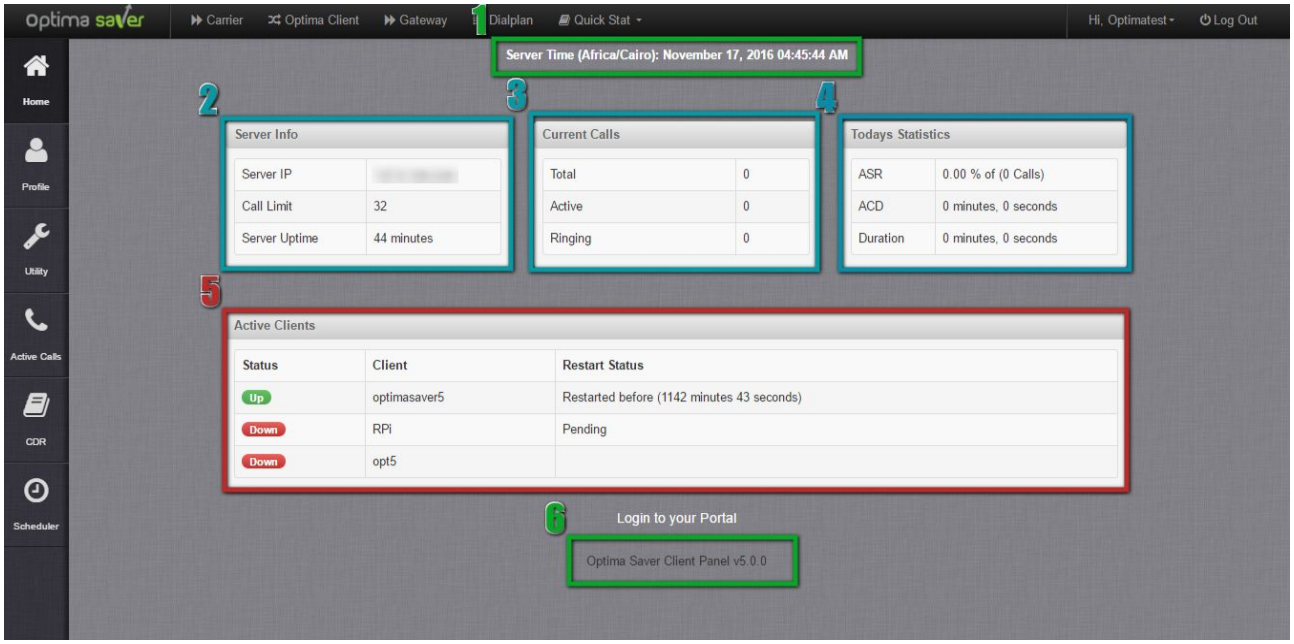


Figure-1 (Home Page)

2. Carrier:

In this segment carrier information can be added as usual but the interesting part is, now you may also define & control the codecs from Optima Saver Client Panel v5.0.0. This awesome feature will provide you more control over the codecs which you may want to receive from your carrier end. Figure 2(shown). Carrier type must be SIP here and port 5060 only.

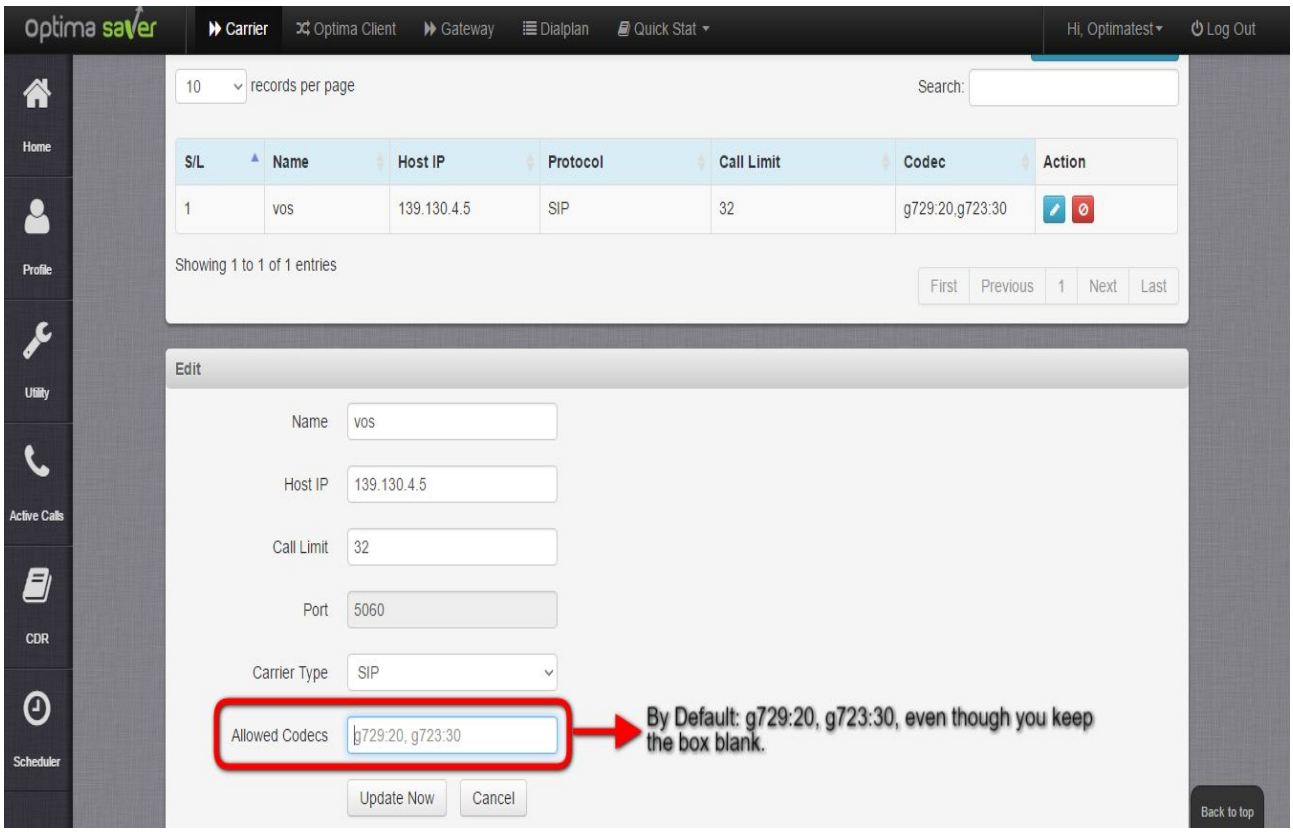


Figure-2 (Carrier Page with Allowed Codec option)

we will explain how you may do it, in following section:

Here, in Fig 2 we can see the option Allowed Codecs.

- Here, by default g729:20 & g723:30 codecs are allowed. g729 is the codec here and 20 is the payload.shown in fig 2
- If you want to allow g711 codecs then we may do it by typing "all" in the allowed codecs box, so that all codecs will be enabled e.g: g711a , g711u, g729 , g723 , shown in fig 3.
- You can change the payload if required. like g729:40 and g723:60, shown in fig 4.

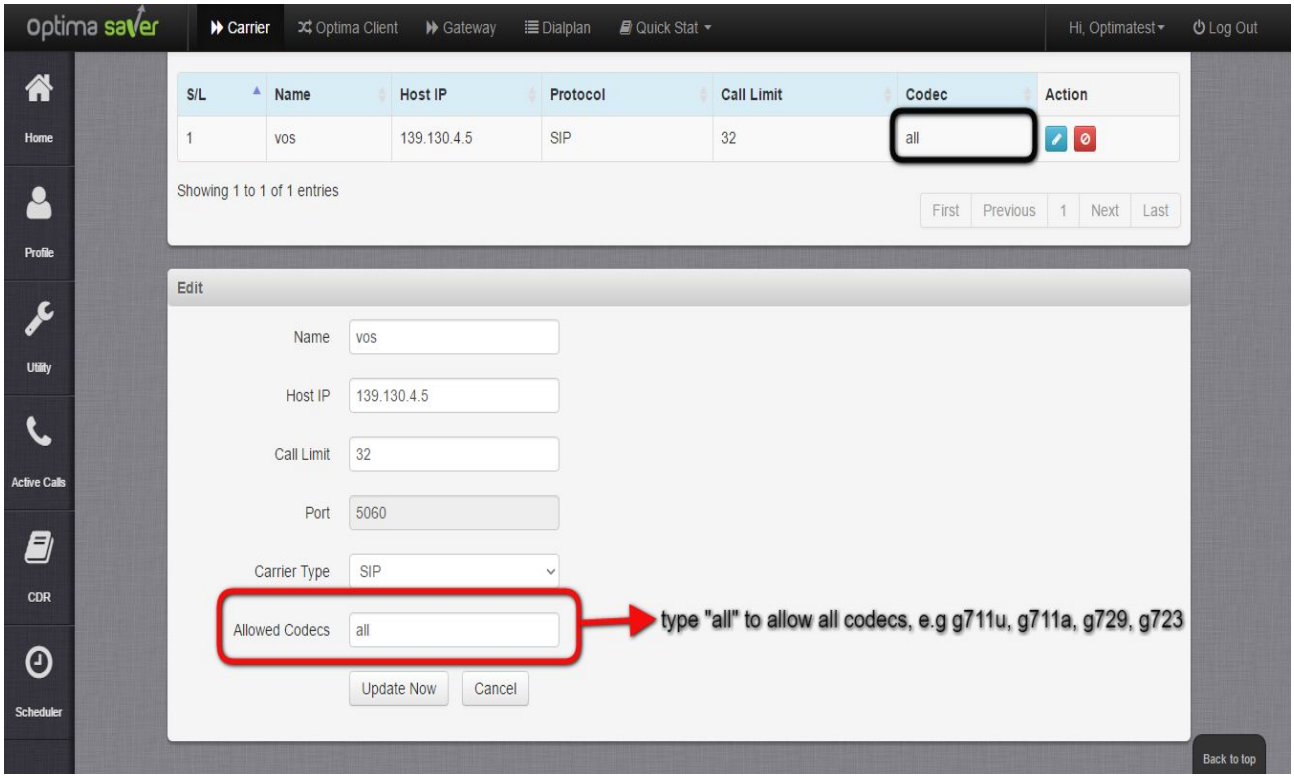


Figure-3 (Carrier Page, Allowed Codec all feature)

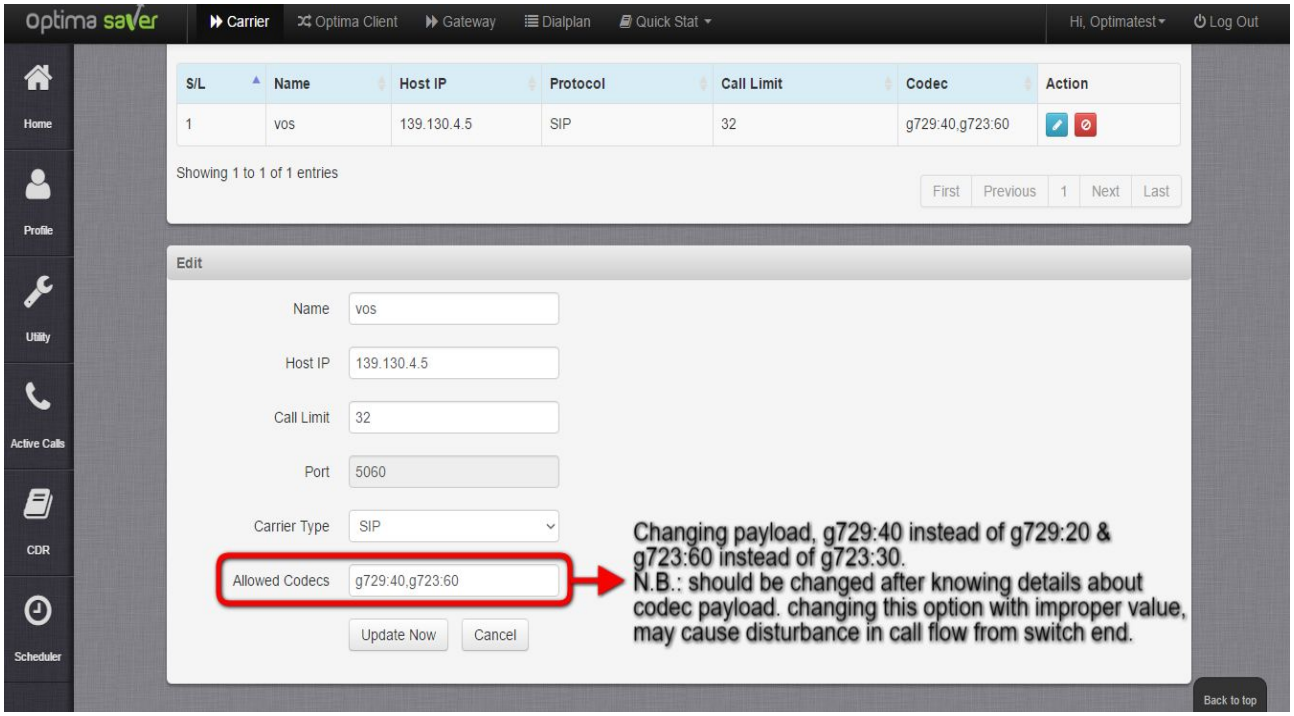


Figure-4 Carrier page (Custom Payload set criteria)

Codec Payload Size

Codec	Payload Sizes (ms) default in **bold**	Profile Used	Payload Type	Base Rate (ms)
G.711 u-Law	10, **20**, 30	4,5,7	0x00	5
G.711 A-law	10, **20**, 30	4,5,7	0x08	5
G.723 53k	**30**, 60, 90	5,7	0x04	30
G.729 A/B	10, **20**, 30, 40, 50, 60	5,7	0x12	10

Table-1 (Details about Codec payload format)

3. Optima Client:

In Optima Saver Client Panel v5.0.0, Optima Client section.

Clients may add the MAC Address of the optima client pc along with other related info, which is a mandatory part as well as can enable tunnels on their own if there is any sorts of protocol/ port blocking with the internet they use, e.g.:

➔ SX , TX(new port added 5967), UX

TX tunnel got multiple range of ports except for SX and UX only.

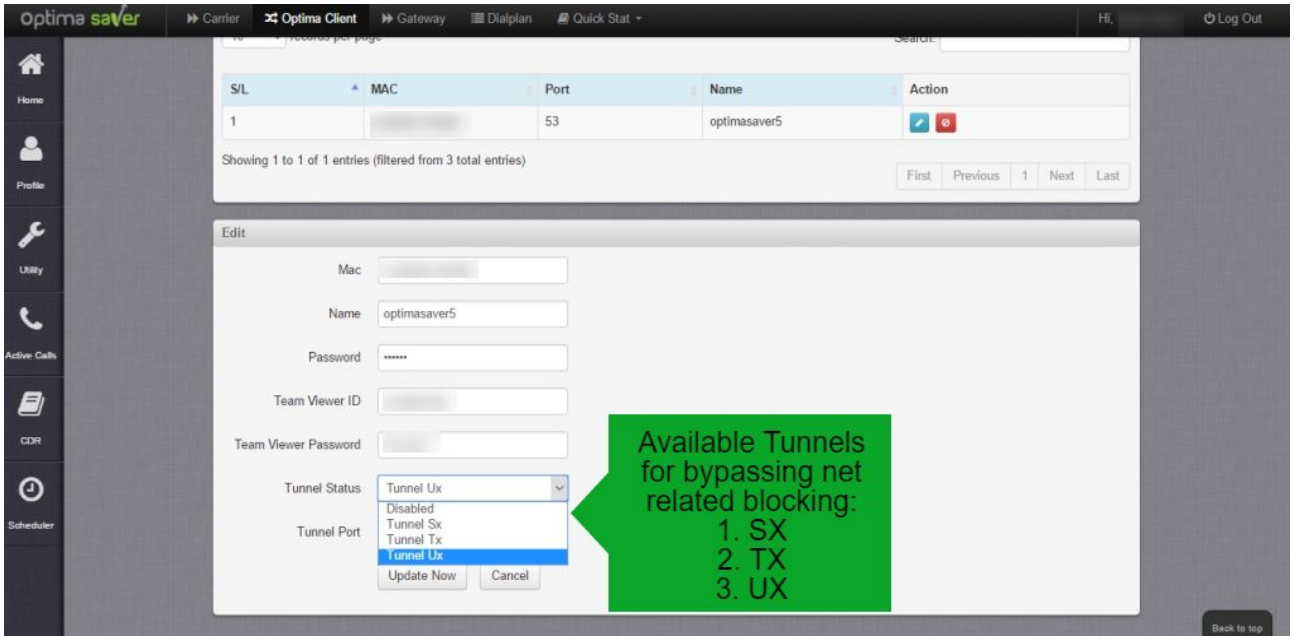


Figure-5 (Optima client page showing available Tunnels)

4. Gateway:

In Optima Saver Client Panel v5.0.0 gateway section, we have introduced some important and unique features. e.g:

- **Gateway wise specific call limit set** is an important feature, which was not functional before, but now it's on. That means, the calls will hit the gateway(s) according to the call limit exactly, e.g. if you set call limit as 9, then only 9 calls will hit the specific gateway. (shown in Fig 6)
- And the unique feature has been added called, **"Gateway Browsing**" with the icon in the action section. (shown from Fig 7 to Fig 12)

  N.B: Optima Edge 5.00 operating system is required for Gateway Browsing Feature.

  From now on wards, you may browse your gateway from here which ips are added in gateway section. Once it is enabled (it may need up to one minute) it will be disabled by system after 30 minutes for your security. you may again enable it when you will need it.

  ATTENTION: if you want to enable this feature you must have to set strong password in the gateway access password section, e.g: (user: admin, pass: 1@Admin1). There is a box named Login Info, there you can save the gateway access info for the gateway.(fig 6)

  Benefit: when teamviewer is blocked by ISP, then Gateway Browsing option will be so much effective.
- Another new feature, like Login info where you may save your gateway access username and pass for gateway browsing

  Splendid! isn't it.

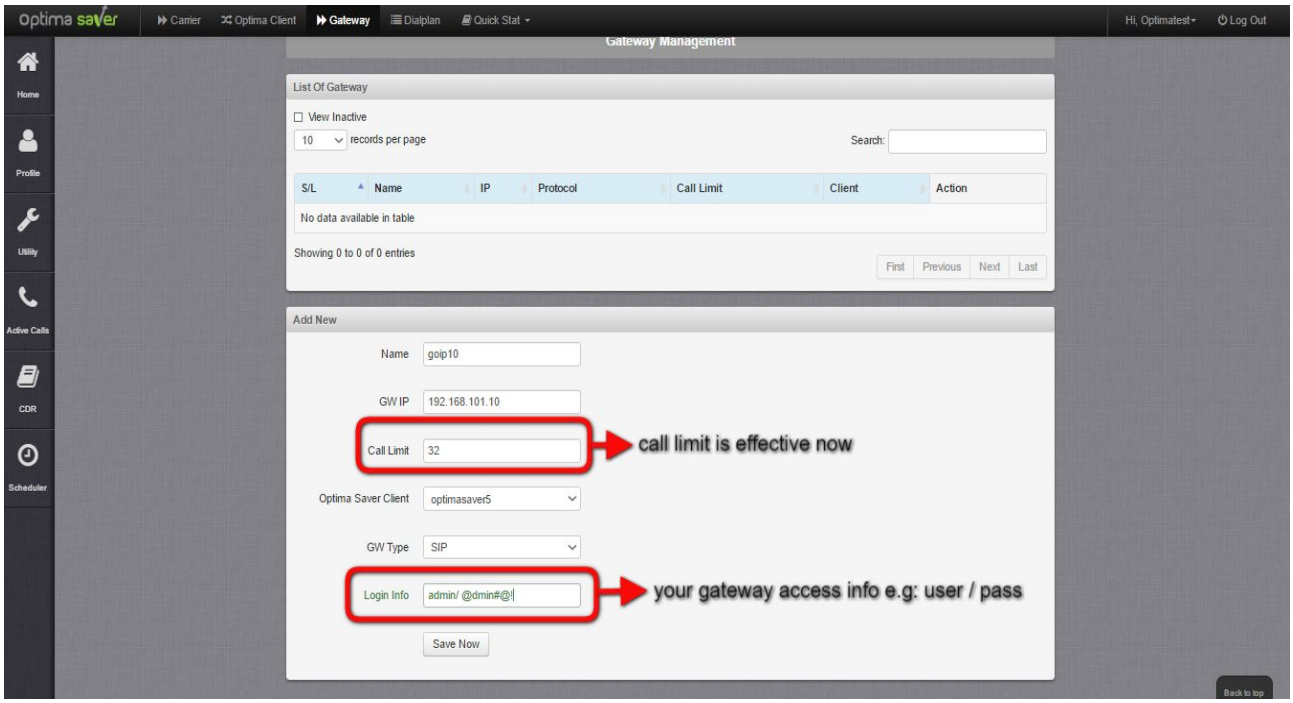


Figure-6 (Call limit is now functional)

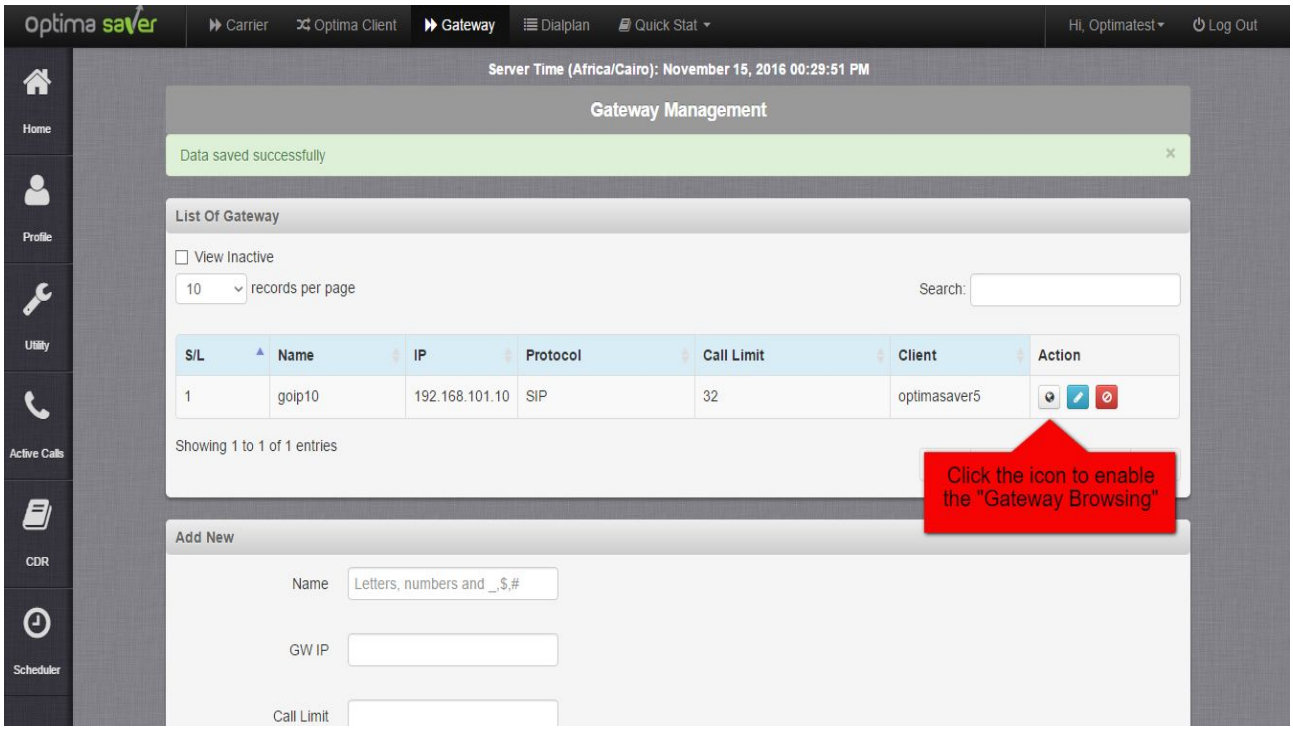


Figure-7 (Gateway Browsing Enable/ Disable Icon)

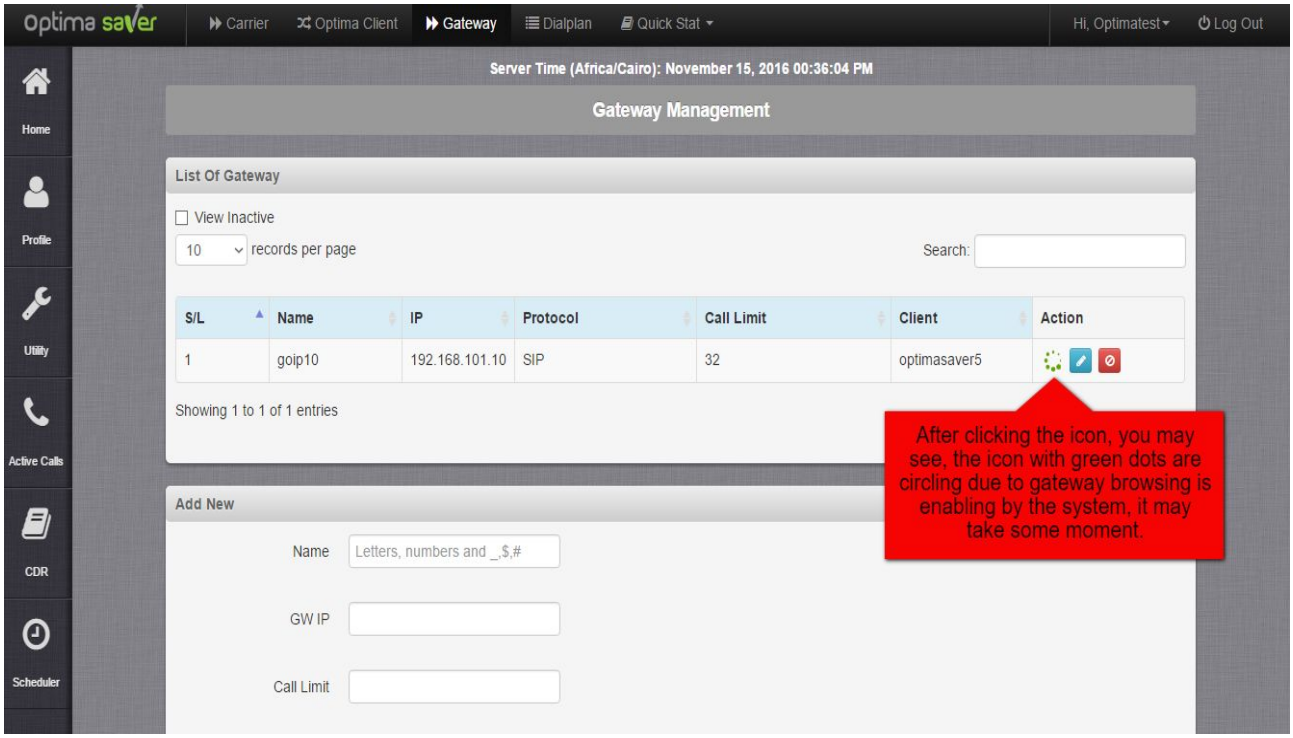


Figure-8 (After clicking the icon, gateway browsing is enabling)

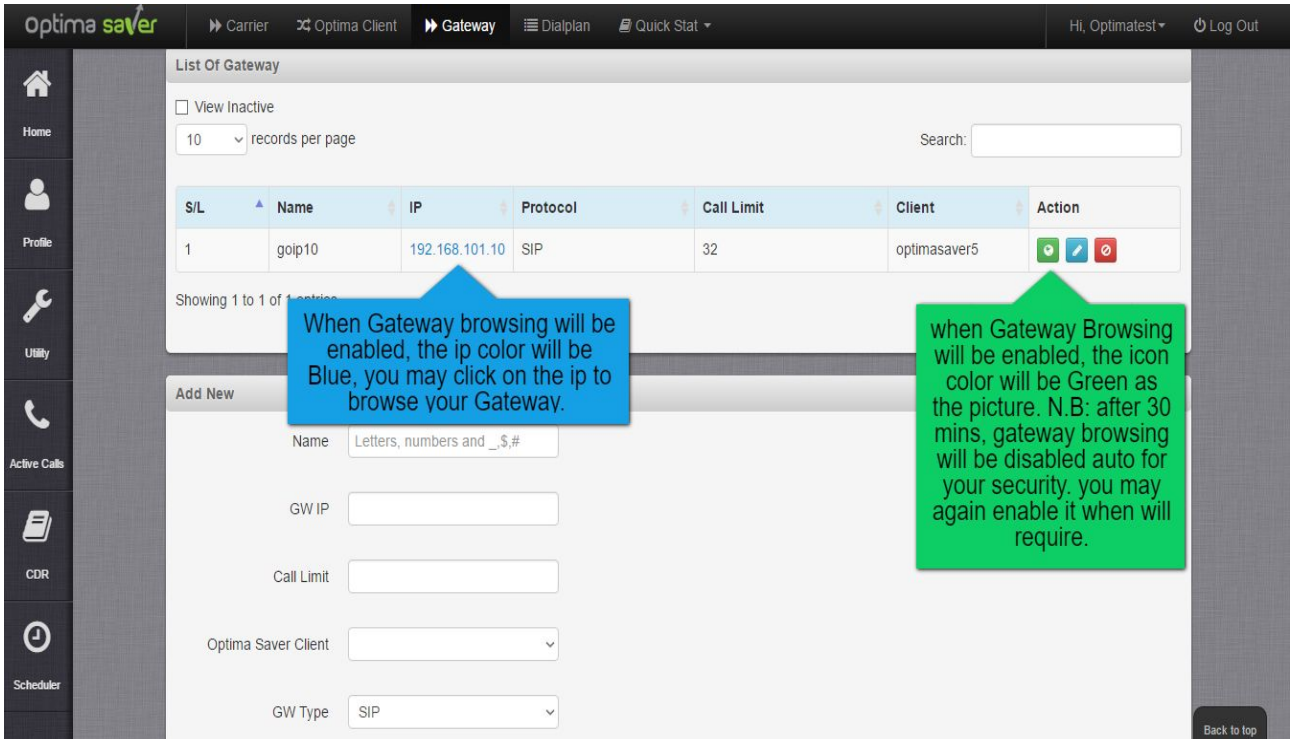


Figure-9 (Now Gateway Browsing in on, click on the Gateway IP)

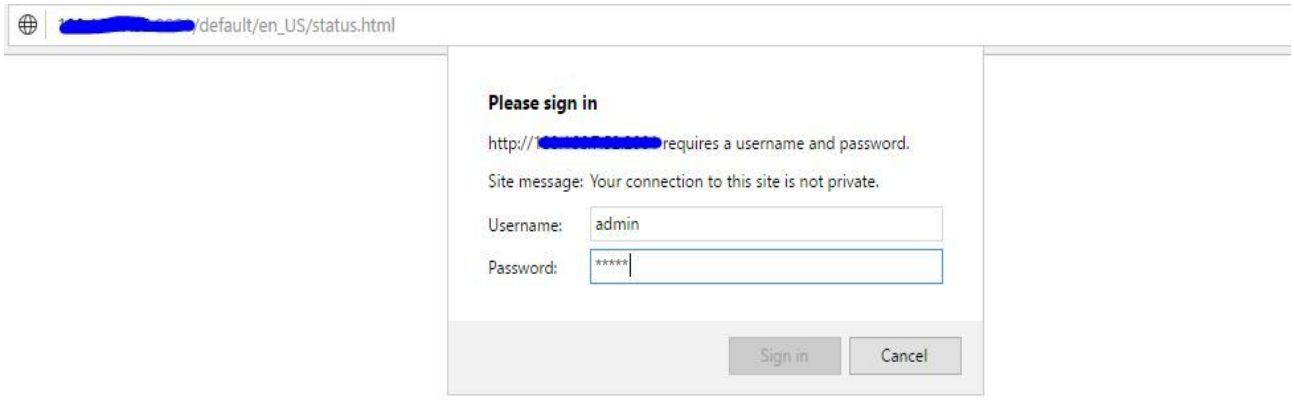


Figure-10 (After Clicking Gateway IP, gateway admin panel will open)

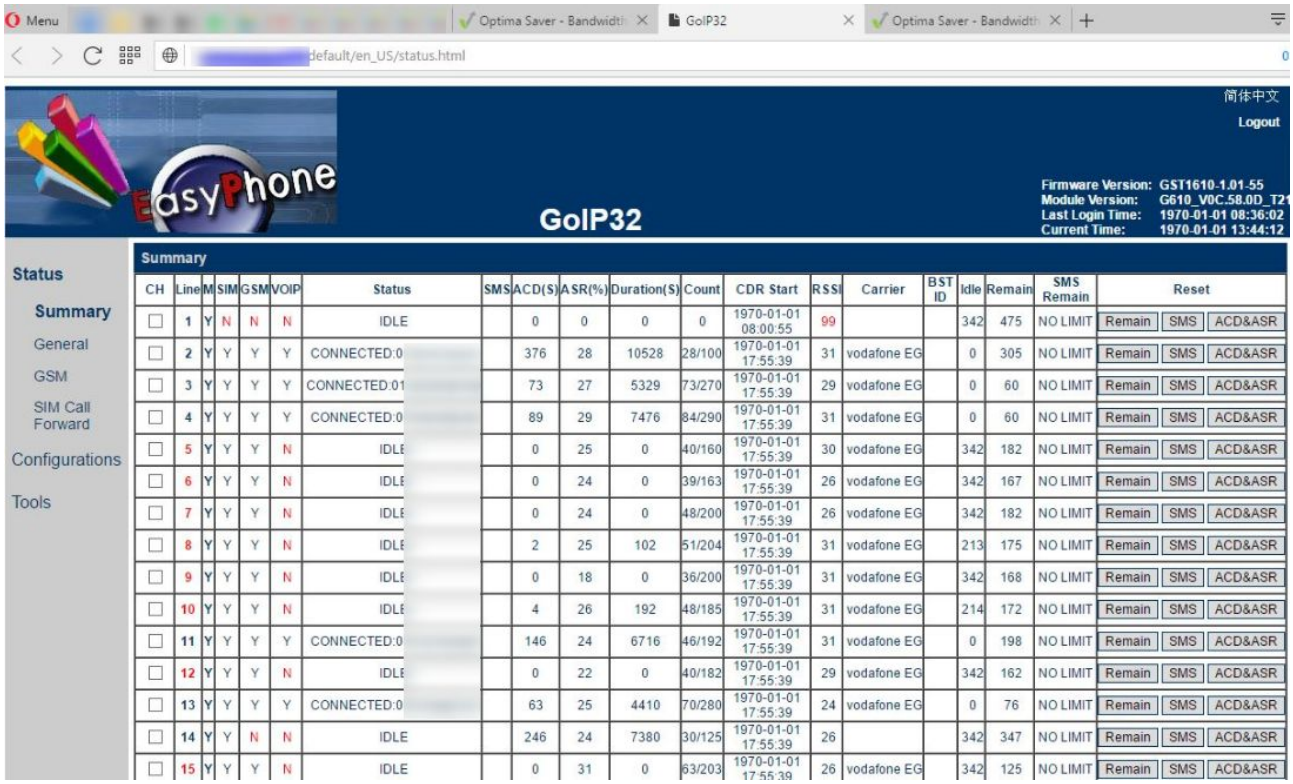


Figure-11 (After providing user and pass, gateway page is open in your browser)

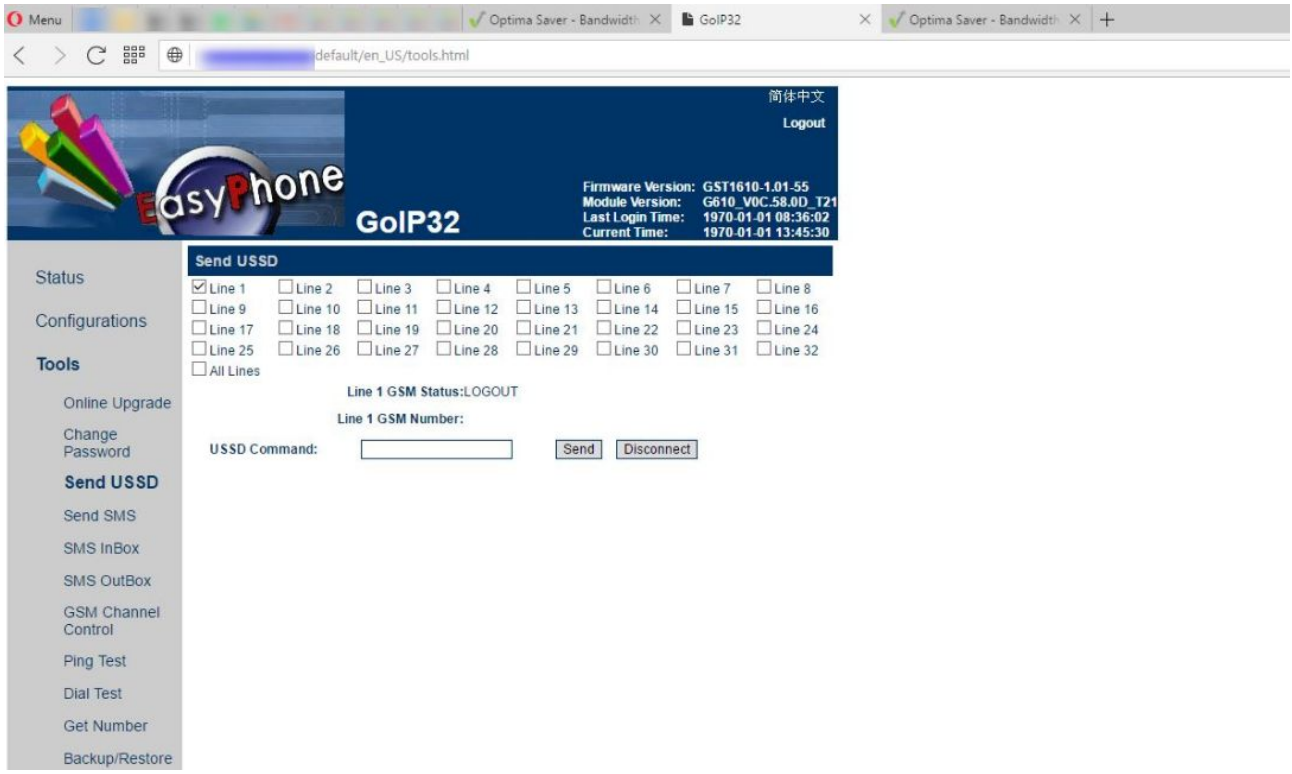


Figure-12 (Browse to any page as per your requirement, e.g: “Send USSD” page)

5. Dialplan

In Optima Saver Client Panel v5.0.0 dial plan segment, we have made some practically useful changes. like:

- from now, you may use null value as mod prefix which was not possible in our earlier version. for some countries trunk prefix is null like 967 (yemen cellular), here truck prefix is not 0, now you may keep the mod prefix blank as shown in fig 13.
- from now, you may use special characters, like _, #, $, * and + in the prefix and mod prefix field. e.g: for some package sim dialing options with special characters, like 92> *123#0, you may use it, depends upon offer from your operator.

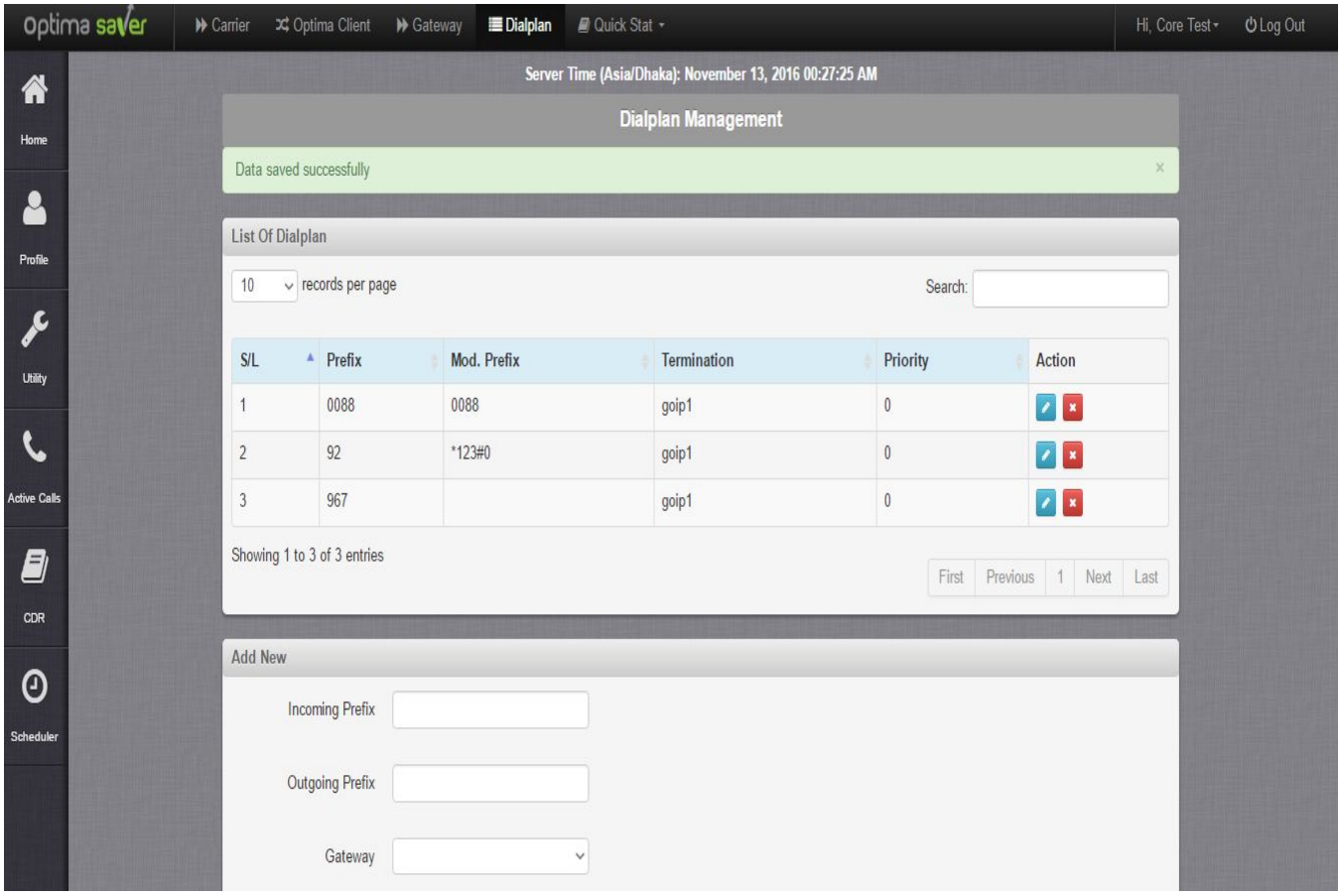


Figure-13 (Dial Plan)

6. Profile

Profile segment is an important area of Optima Saver Client Panel v5.0.0. The most important thing is your password here. Always use a strong password and change it every week for your own security. you may also input here your name, user login address, email and timezone as per your requirement.

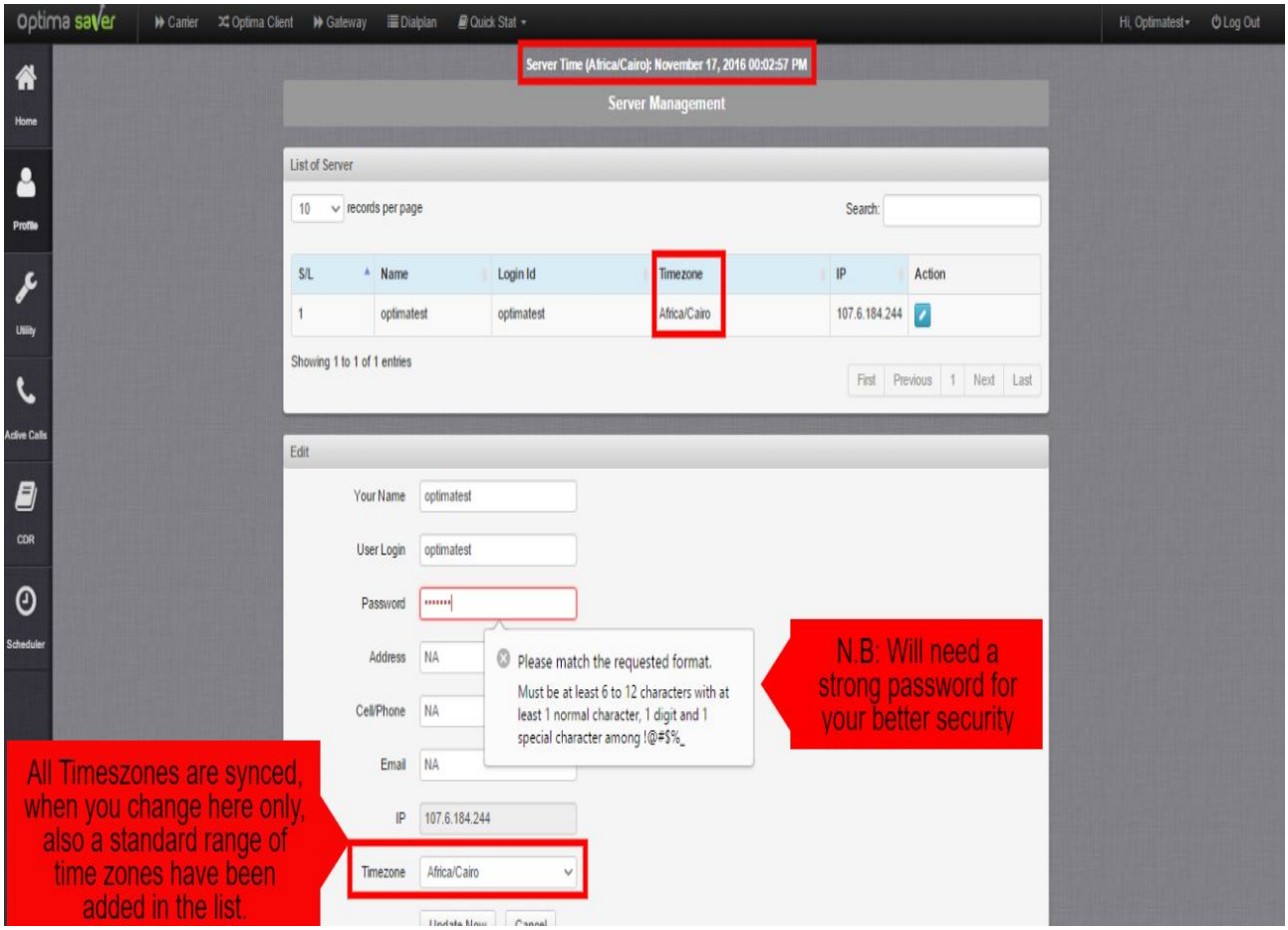


Figure-14 (Profile)

7. Utility

In Optima Saver Client Panel v5.0.0 utility segment, we have introduced some new technical features in the advanced settings section,Fig:15-16 , like:

- Normal Dial / Retry Dial.
- Normal Ring/ Early Ring.
- Firewall on/ Firewall Off.

also added some new features like:

- Debug Console.
- Ping Response.

we will explain the features below:

- **Normal Dial / Retry Dial:** Normal Dial will ring the call once then drop, whereas with retry dial, calls will dial the 2nd time if first attempt failed. With retry dial option on, ASR may increase a bit as well as Failed Calls may reduce if there are many with Normal Dial. Fig 15
  Default Settings: Normal Dial.
- **Normal Ring/ Early Ring :** If early ring is enable, asterisk will send immediate 183 session with a ring back tone to caller, before calle get the call, it may lower the PDD, whereas normal ring sends the ringback tone when the call reaches to the callee. Fig 15
  Default Settings: Normal Ring.
- **Firewall on/ Firewall Off:** with firewall on no calls will hit without the IP listed in the carrier section, with firewall off calls may hit from other ips but will not succeed to pass the server. with this option on we may see from which ips calls are coming from debug console sections if required. Fig 15
  Default Settings: Firewall on.

- **Debug Console:** From here we may see the switch end codec and from which ip's, calls are hitting our server from, Sip debug console fig 17, channel debug console, fig: 18.
- **Ping Response:** Now you may see the ping Latency from optima server to optima client pc end in the utility page. Standard ping time time response in below 300, if it exceeds 300, then we can suspect that there might be any issue with the connectivity like net monitoring, protocol blocking or packet-loss etc. Fig 19

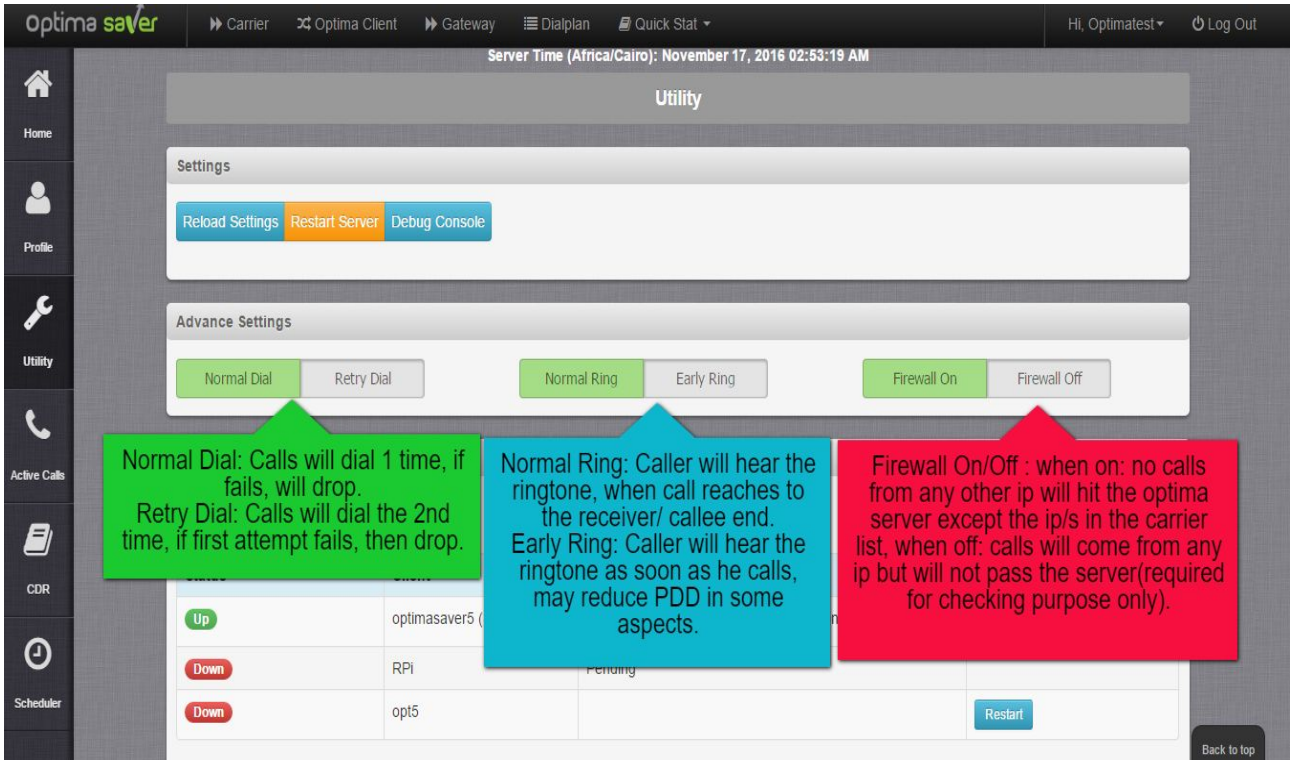


Figure-15 (Advanced Settings)

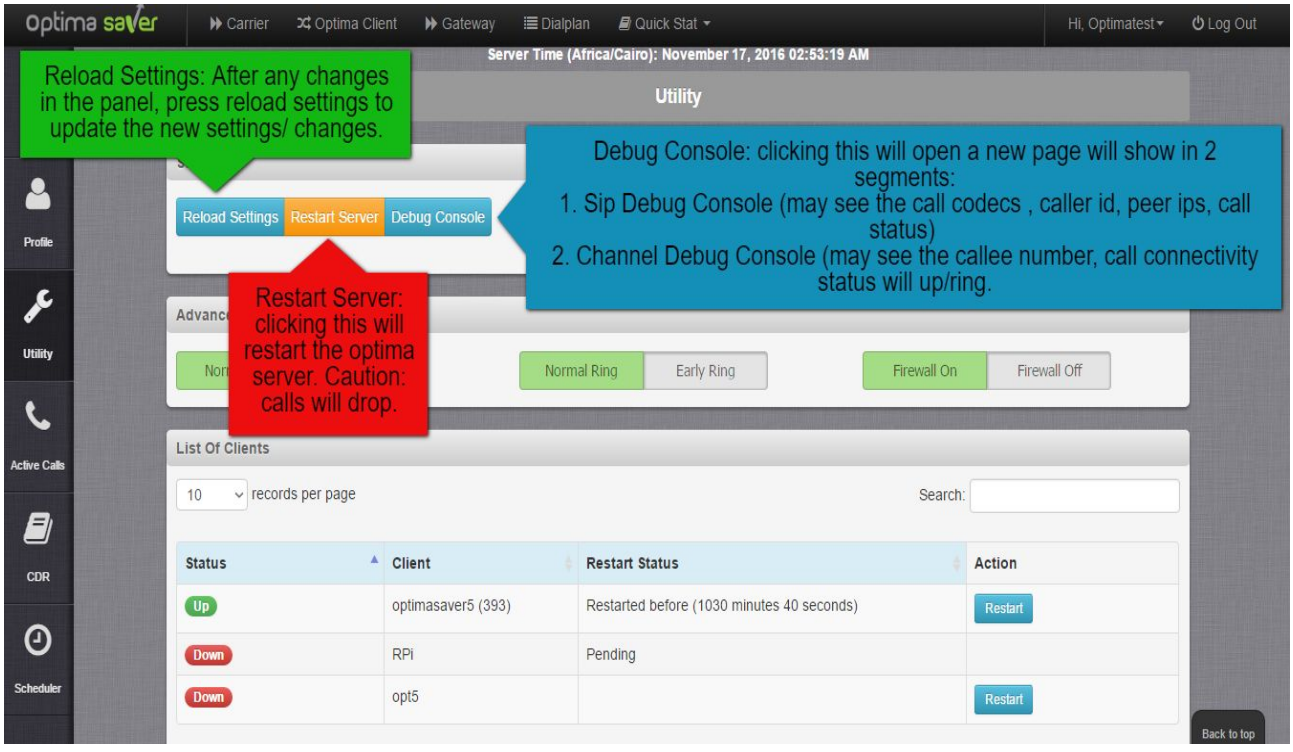


Figure-16 (Settings)

Debug Console(Sip Debug):

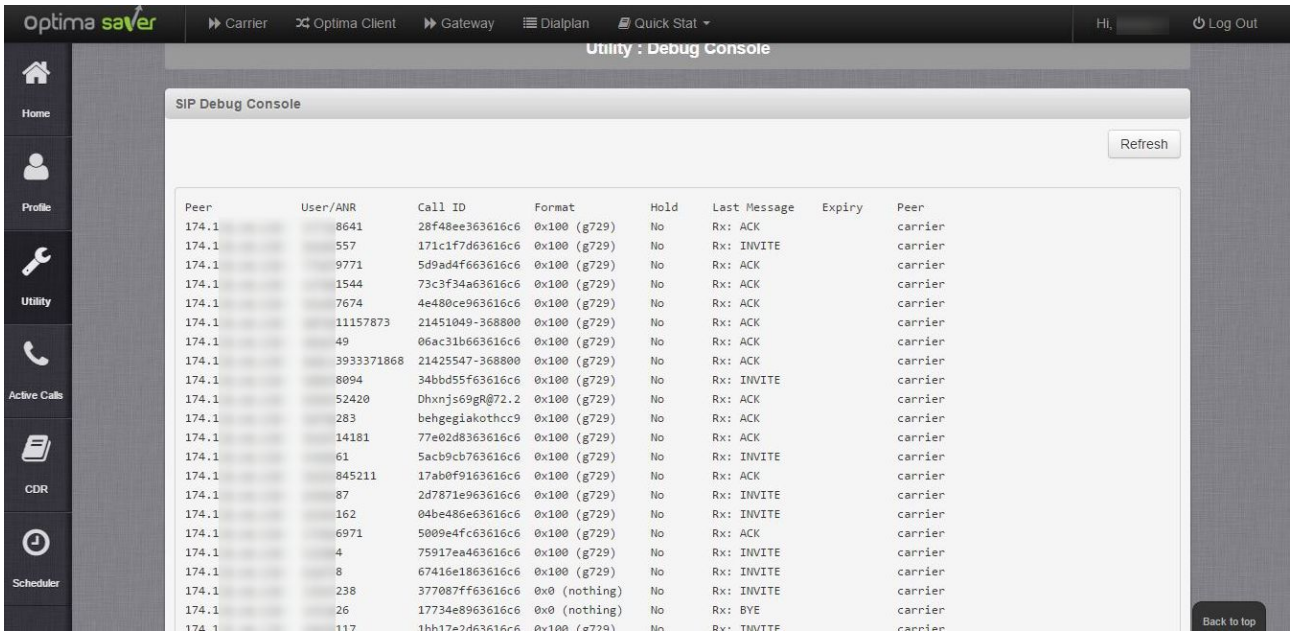


Figure-17 (SIP Debug COnsole, check codec & carrier ip here)

Debug (Channel Debug) :

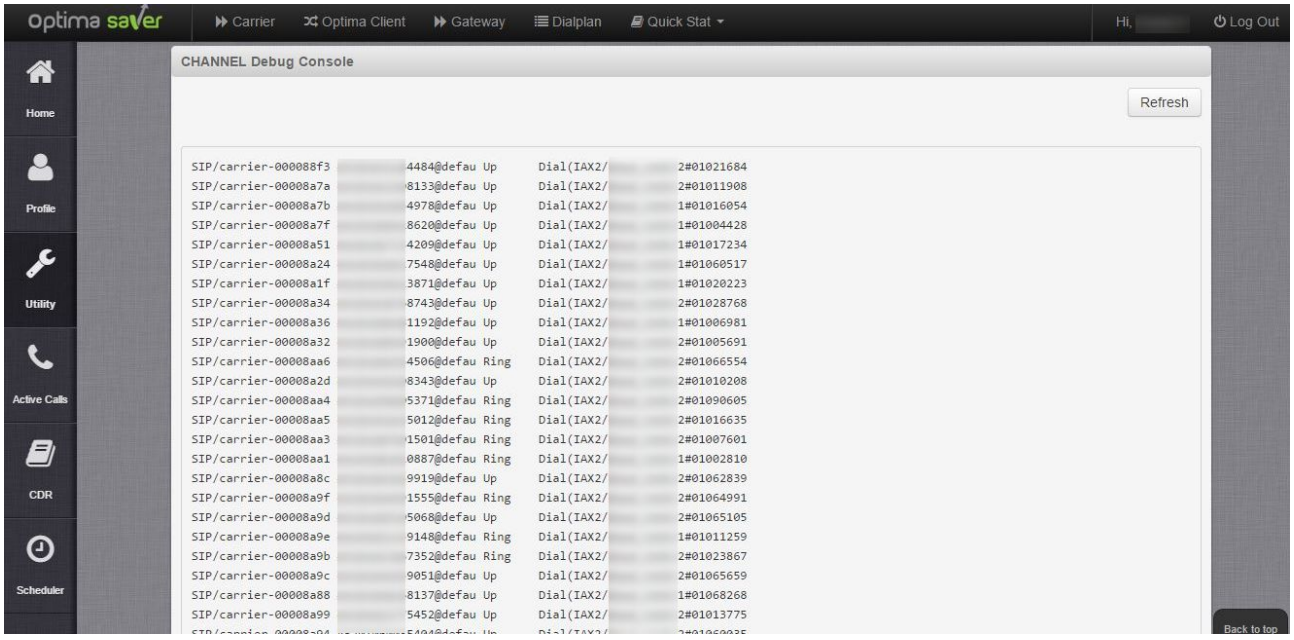


Figure-18 (Channel Debug Console, check gw & call status here)

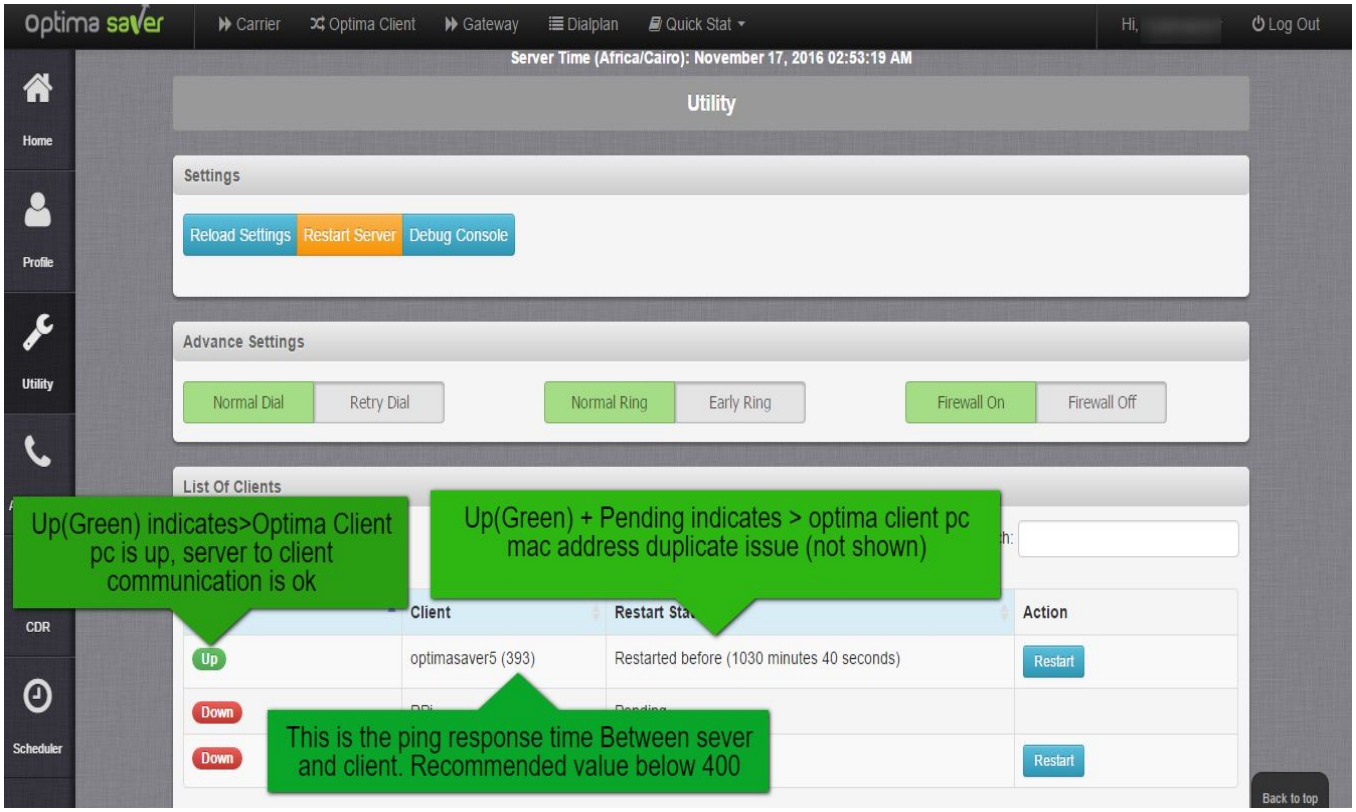


Figure-19 (list of clients)

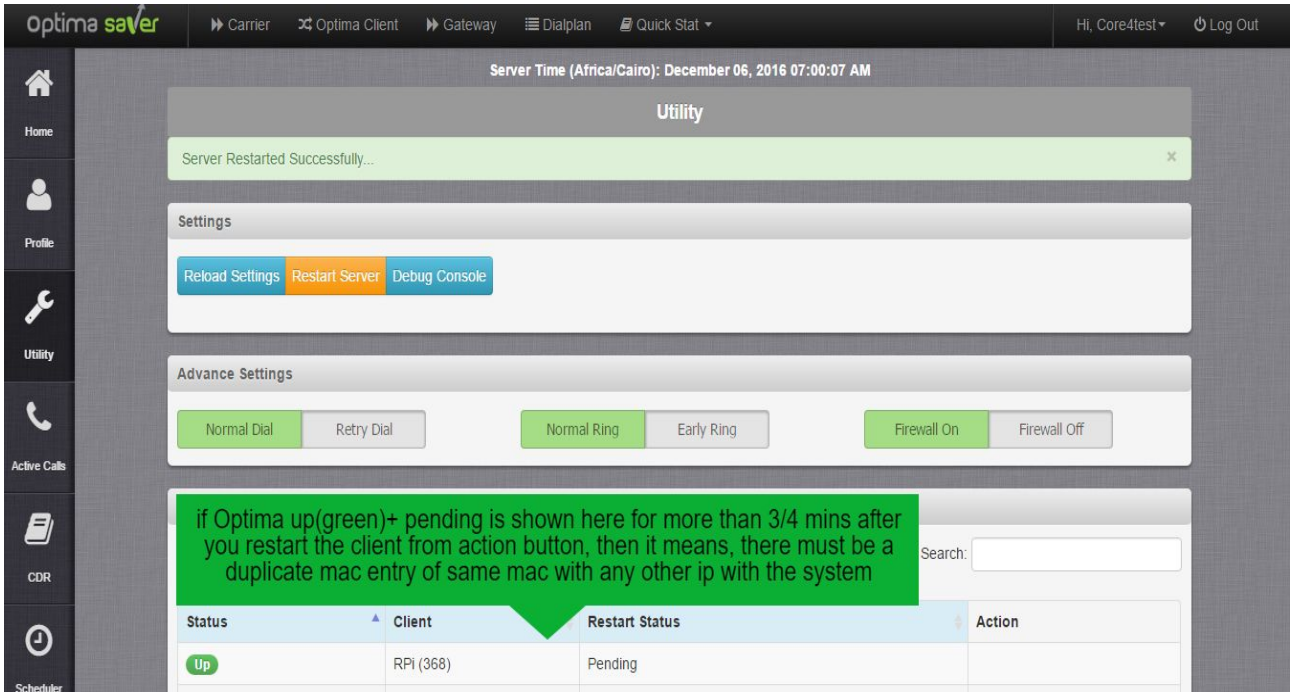


Figure -19a (if mac duplicate in the system)

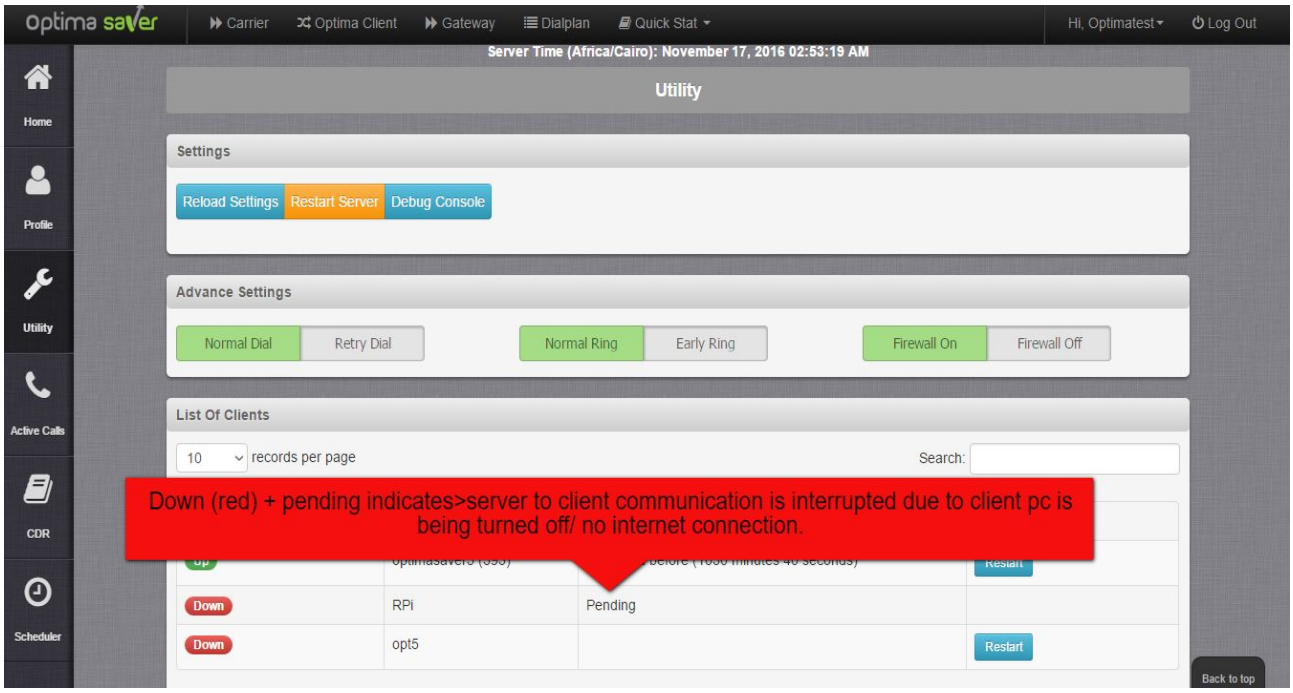


Figure-20 (Down, red + pending indicates)

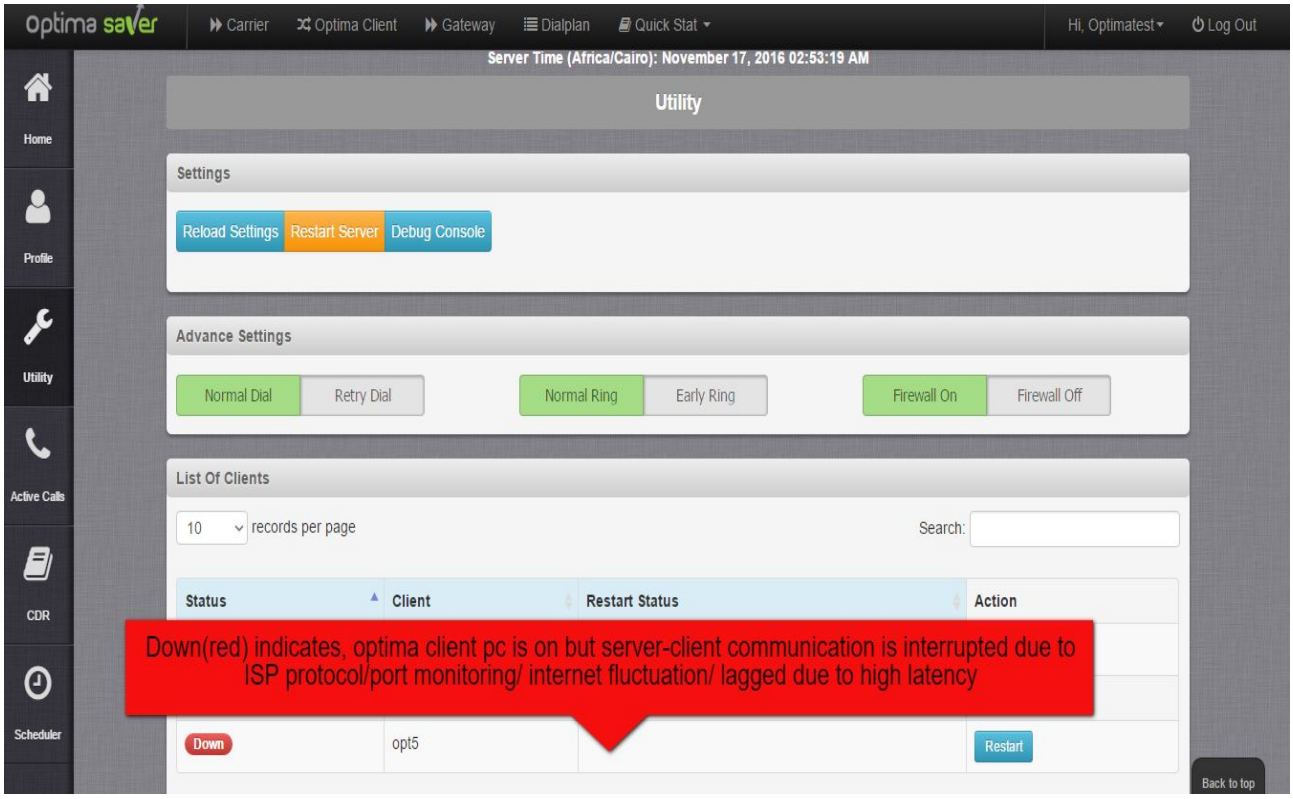


Figure-21 (Down, red Indicates)

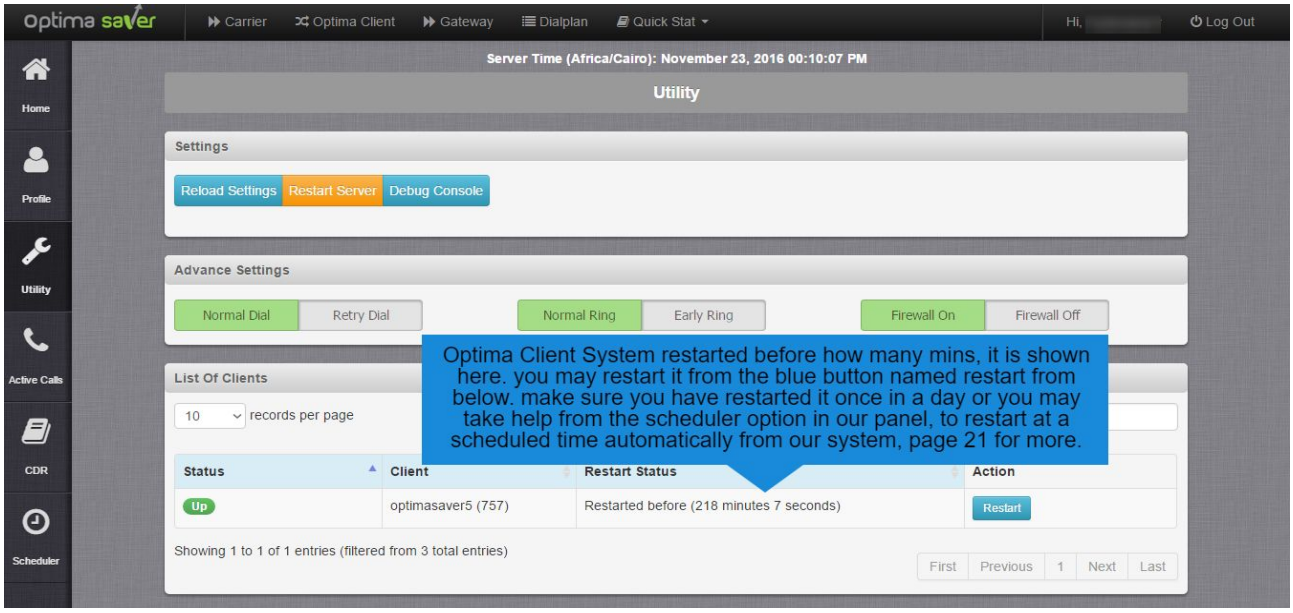


Figure-22 (Client system restart time, client restart will drop calls for that specific client)

8. Active Calls

In Optima Saver Client Panel v5.0.0, you may see your active calls here.

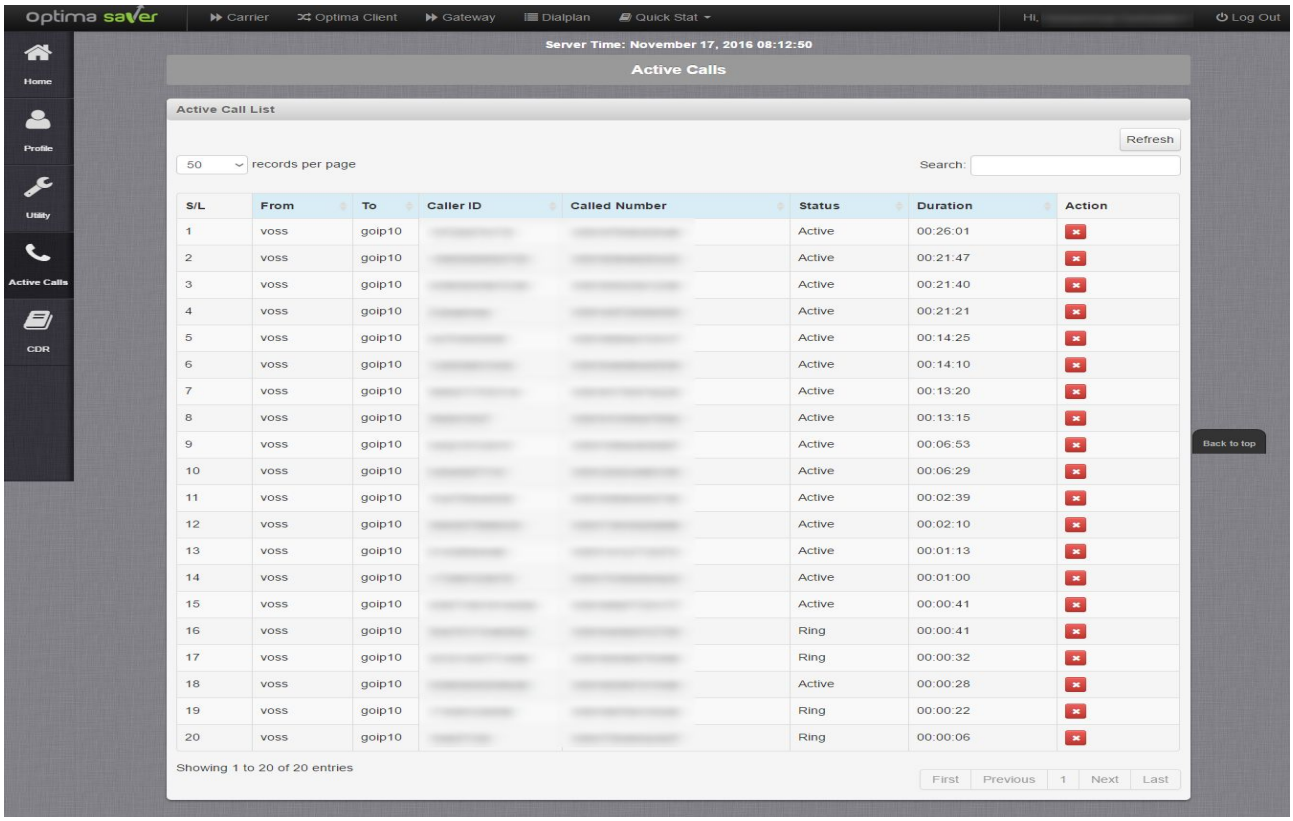


Figure-23 (Active Calls)

9. CDR:

Optima Saver Client Panel v5.0.0 CDR is now more informative than before:

- You may get your total minutes sorting by prefix also along with gateway and carrier. also if you add the rate and currency, your total rate will show in the CDR., shown fig 24
- Client can generate and download PDF invoice using Rate and Currency, shown fig 25
- **Our previous drawback was it can handle 128 ports, now there is no limitation.**

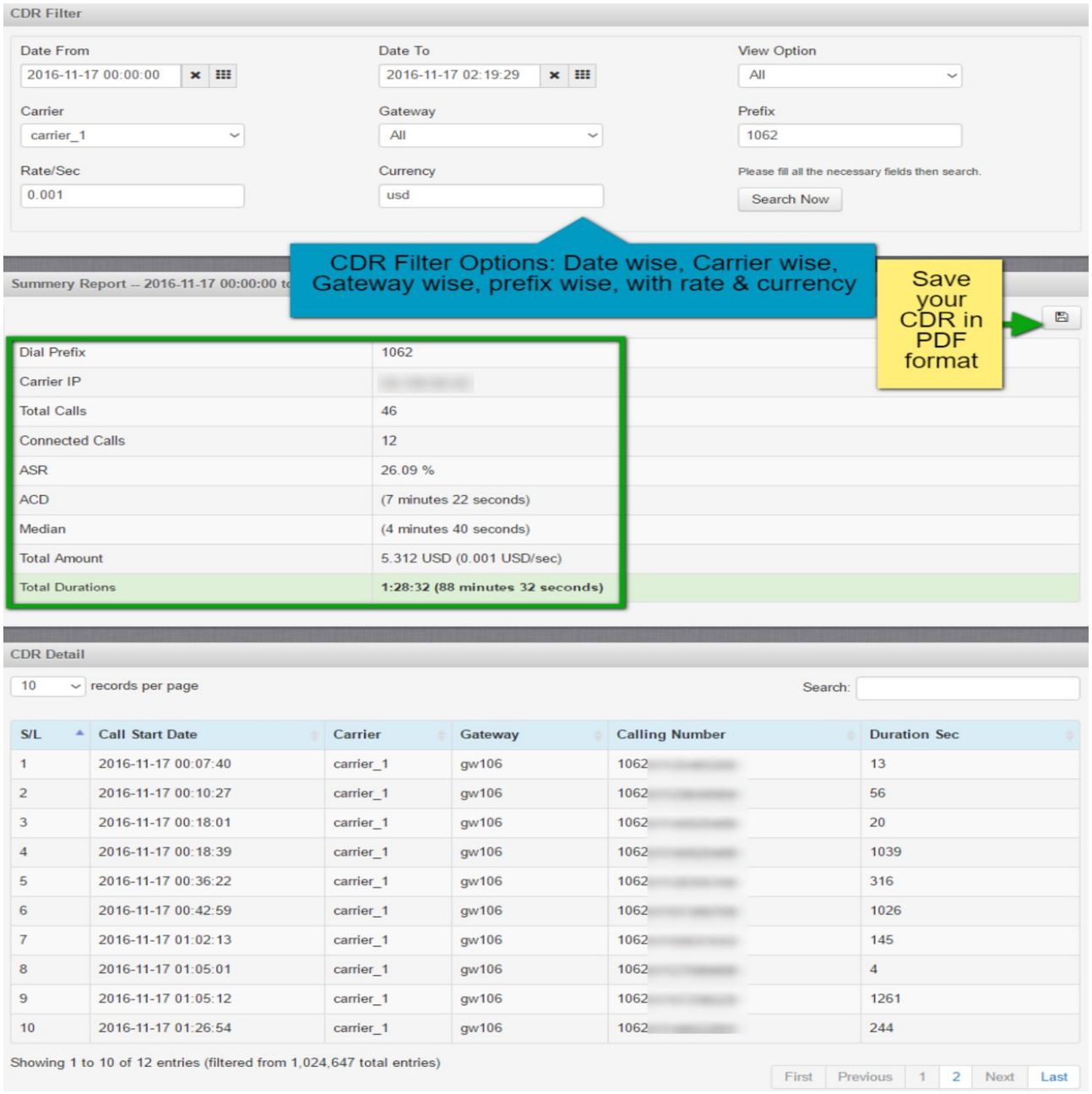


Figure-24 (CDR)

Invoice PDF:

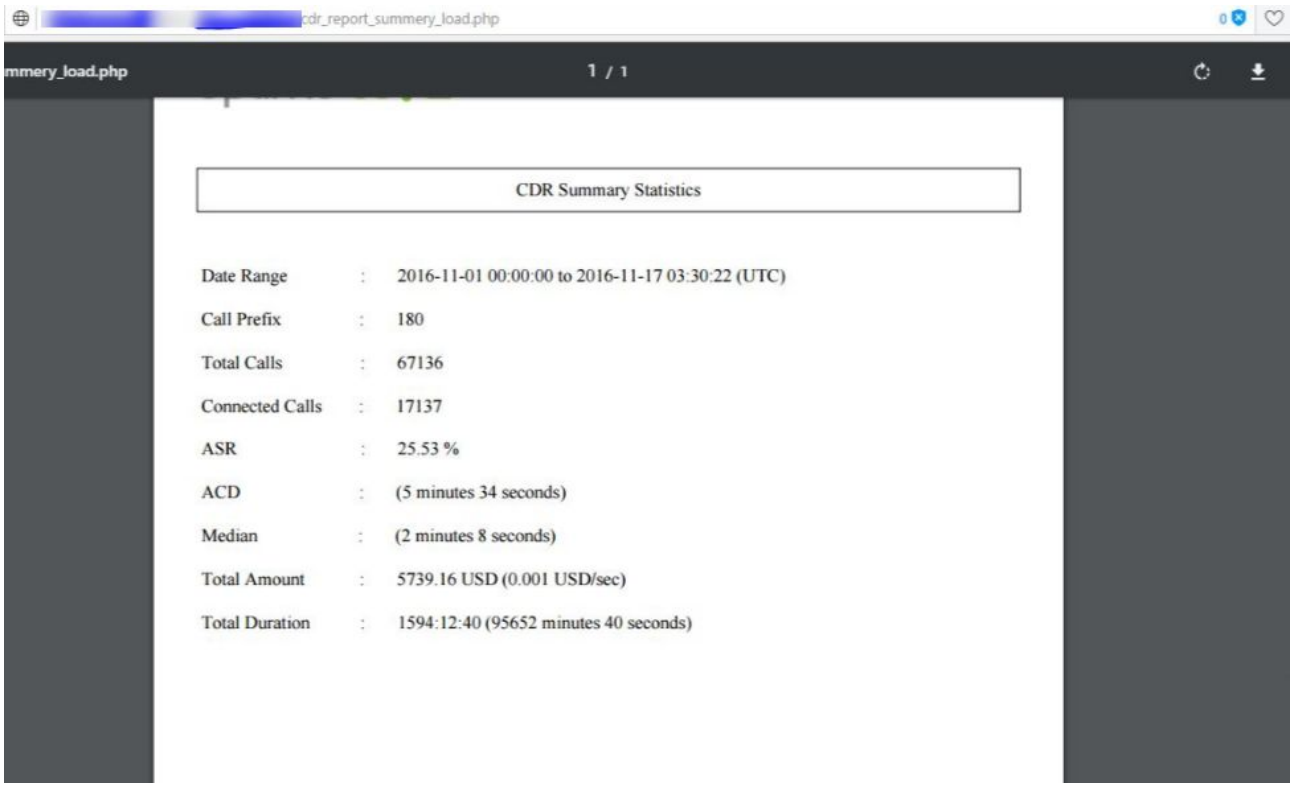


Figure-25 (Invoice PDF, after clicking the save button from Fig 24)

10. Scheduler :

You said, we heard!

We have introduced the scheduled restart facility of your server or client in a scheduled time in the Optima Saver Client Panel v5.0.0, the most advanced panel ever built!. shown on fig 26.

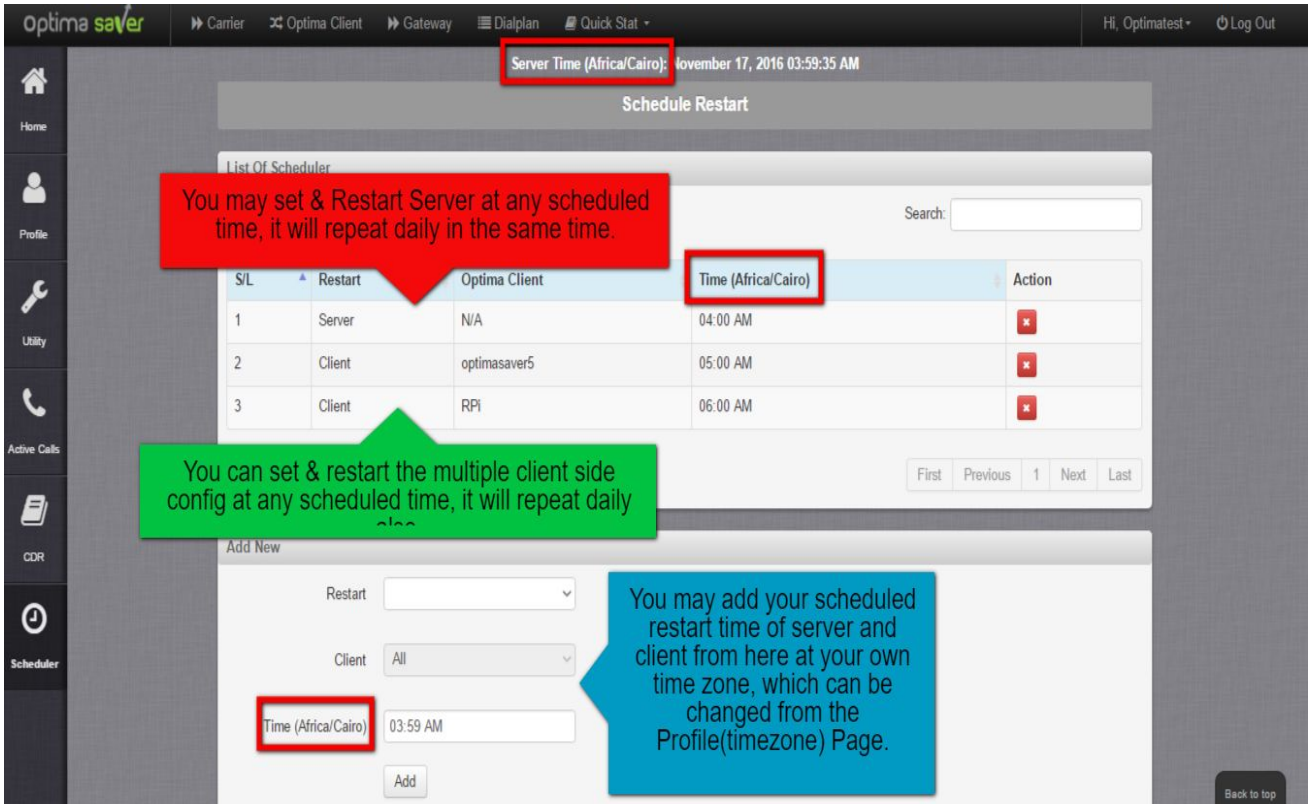


Figure-26 (Scheduler settings)

N.B: If you change the timezone in profile section then all the time zone's will be changed in the panel as well as the time will be adjusted as per new time zone. e.g: suppose you have set the timezone as UTC and time 12:00 am, if you change the timezone in profile section as Africa/Cairo, then time will be adjusted to 2:00 AM automatically as Africa/Cairo time is UTC+2.

Glossary

ACD - Average Call Duration.

ASR - Answer-Seizure Ratio.

CDR - Call Details Record.

Codec - Compression decompression, e.g: g729 , g723, g711u, g711a.

MAC Address - Media Access Control Address, which may consists 12 alpha-numeric/ numeric, within the range of 0 to 9 & A to F. This is known as physical address of NIC (Network Interface card) like lan card, wlan card etc.

SIP - Session Initiation Protocol, is an application layer communications protocol for signaling and controlling multimedia communication session such as voice and video calls. The most common applications of SIP are in Internet telephony, as well as instant messaging, over Internet Protocol (IP) networks.

Latency - The amount of time it takes a packet to travel from source to destination. Together, latency and bandwidth define the speed and capacity of a network.

PDD (Post Dial Delay) - Time between the last number of the called phone is pressed and the audio signal ring or the called party is heard by the caller.

Packet Loss - The losses of data in a packet based network, usually due to congestion and consequent buffer overflow. In VoIP (Real Time communication) the packets lost are not sent again and should not be over 5%.