E1/T1/J1 Upgradable PRI Card Quick Installation Guide





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About this manual

This manual describes the Allo product application and explains how to work and use it major features. It serves as a means to describe the user interface and how to use it to accomplish common tasks. This manual also describes the underlying assumptions and users make the underlying data model.

Document Conventions

In this manual, certain words are represented in different fonts, typefaces, sizes, and weights. This highlighting is systematic; different words are represented in the same style to indicate their inclusion in a specific category. Additionally, this document has different strategies to draw User attention to certain pieces of information. In order of how critical the information is to your system, these items are marked as a note, tip, important, caution, or warning.



- **Bold** indicates the name of the menu items, options, dialog boxes, windows and functions.
- The color <u>blue</u> with underline is used to indicate cross-references and hyperlinks.
- Numbered Paragraphs Numbered paragraphs are used to indicate tasks that need to be carried out. Text in paragraphs without numbering represents ordinary information.
- The Courier font indicates a command sequence, file type, URL, Folder/File name
- e.g. <u>www.allo.com</u>

Support Information

Every effort has been made to ensure the accuracy of the document. If you have comments, questions, or ideas regarding the document contact online support: <u>http://support.allo.com</u>



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1. Introduction

In an industry that is ever changing, Allo has introduced a new series of license based digital cards that are field upgradable to more number of ports (Max 4 ports). Allo PRI cards are high-performance and cost effective digital telephony interface cards which support T1/E1 interfaces. Allo cards have an optional hardware base Octassic[™] DSP Line Echo Cancellation that can help you achieve the highest voice quality with today's technology.

This is a card with an affordable price tag proven to handle very high density of calls in hardcore call center/Telco environments. Allo cards (DAHDI) are compatible with Asterisk[®], FreeSWITCH[®], Yate[™], Elastix, Trixbox, as well as other open source and proprietary PBX, Switch, IVR, or VoIP gateway applications.

Model No	Product Description
3aCP1e/3aCP2e/3aCP4e	1/2/4 Port PRI PCIe card
3aCP1eL/3aCP2eL/3aCP4eL	1/2/4 Port PRI PCIe card with Line Echo Cancellation

1.1 Overview

Allo license based digital cards allow users to upgrade the firmware as well as ports based on their requirements. These cards are available with two RJ45 ports which provide two E1/T1 interfaces and can be extended to four E1/T1 interfaces by using a splitter.

Since these are license based cards the user can purchase a 1/2 port card and can later upgrade to a maximum of four ports by purchasing the license from Allo.





License Based Allo Digital Card

1.2 Y- Splitter

The Y-splitter is provided for accessing all four ports on the Allo License based digital series cards. The following figure helps to identify a splitter and its end ports.



Y-Splitter



1.3 Splitter End



Splitter End

1.4 Connection Diagram



Connection Diagram



1.5 Slot Compatibility

Check your motherboard to verify that a compatible slot is available for an Allo digital E1/T1 card. To determine which slots you have on your motherboard.

PCI Express 1-lane (x1) Slot	
PCI Express 4-lane (x4) Slot	
PCI Express 8-lane (x8) Slot	
PCI Express 16-lane (x16) Slot	

Motherboard slots

The Digital E1/T1 cards work with PCIe slot like x1, x2, x4, x8 and x16.

2. ALLO Card Licensing

GENERATE YOUR LICENSE	
PA07904961400001	
admin@gmail.com	
John	
9880140037	
India	
GENERATE LICENSE	

Generate your License

- 1. Log on to the http://license.allo.com
- Enter the particular details of the card (Serial Number) along with your Email id, Phone number, and select the country.
- 3. Click generate license button, to generate the license.
- 4. After submitting, user will receive the license to the email id provided.



 Download and copy the License file to the machine where the card is being installed in the following directory "lib/firmware".

In case the license email is not received please check in spam or contact Allo support.

3. Hardware Installation

- 1. Now that you are acquainted with the 3aCP1e/3aCP1eL series cards, power down your computer and unplug it from its power source.
- 2. Attach a static strap to your wrist and open the case.
- 3. Take away the section place holder and addition the card into a PCI or PCI Express Slot.



- 4. Replace the cover to your computer
- 5. Plug the T1 or E1 equipment cable into the RJ45 port.



Use only shield cables to ensure compliance with the international EMC standards.



3.1 Hardware Setup



License Based Digital Card

- 1. Insert the Digital E1/T1 card in the PCIe slot of the Server.
- 2. Check if the installed PRI card is detected using the "lspci" command.
- 3. If the card is recognized, the following output will be displayed. Please search for Allo ID (1d21).

Ispci

07:00.0 VGA compatible controller: Matrox Graphics, Inc. MGA G200EV 0b:00.0 Ethernet controller: Broadcom Corporation NetXtreme II BCM5716 Gigabit Ethernet (rev 20) 0b:00.1 Ethernet controller: Broadcom Corporation NetXtreme II BCM5716 Gigabit Ethernet (rev 20) 10:00.0 Communication controller: Unknown device 1d21:1340 (rev 01) 15:00.0 Communication controller: Unknown device 1d21:1220 (rev 01) 1a:00.0 Communication controller: Unknown device 1d21:1340 (rev 01) 24:00.0 SCSI storage controller: LSI Logic / Symbios Logic SAS1064ET PCI-Express Fusion-MPT SAS (rev 08) [root@Localhost ~]#

Below Table lists the device ID and the number of ports supported.

Device Id	Model Number	Card Type
1310	3aCP1e	1 port PRI Card
1320	3aCP2e	2 ports PRI Card
1340	3aCP4e	4 ports PRI Card



If the PRI card is not recognized by the system, you have to power off and take out the card, and re-insert it in another PCIe slot.

4. Software Installation Steps

This section describes about the installation of LibPRI, Dahdi and Asterisk.

Test Environment (Example) Libpri-1.4.14 ALLO Dahdi Driver - 2.9.1 asterisk-11.4.0 centos 6.2 (kernel version: 2.6.32) Telephony Card : 4 port PRI PCIe card (Model:3aCP4e)

Installation of dependency packages

Install Asterisk's dependencies that are required to compile asterisk. Run the followings commands to install the required packages.

[root@localhost ~]# yum install bison bison-devel ncurses ncurses-devel zlib zlib-devel openssl openssl-devel gnutls-devel gcc gcc-c++ libxml2

4.1 Installation of LibPRI package

Go to /usr/src directory and Download LibPRI by running the following command

#wget http://downloads.asterisk.org/pub/telephony/libpri/libpri-1.4.14.tar.gz

After downloading LibPRI extract the LibPRI tar file by the following command

[root@localhost src]# tar -xvzf libpri-1.4.14.tar.gz

Install the LibPRI by the following commands

[root@localhost src]# cd libpri-1.4.14

- # make clean
- # make
- # make install

4.2 Installation of Dahdi Driver

Download latest ALLO Dahdi Drivers from Allo web site and install the Dahdi version as per your requirement. Please find the link here for download <u>http://allo.com/pri-upgradable-card.html</u>.The link is also available in the "Guides & Drivers" section on <u>www.Allo.com</u>

Extract the downloaded file by executing the below command.

#tar -xvzf dahdi-linux-complete-2.9.1.1+2.9.1.tar.gz

Use the following commands to install DAHDI drivers

#cd dahdi-linux-complete-2.9.1.1+2.9.1

#make

#make install

#make config

Successful Dahdi Driver installation shows the similar output & lists the detected Dahdi devices



Dahdi driver Installation output log

4.3 Installation of Asterisk

Download the latest version of asterisk. Asterisk is available for download from: http://downloads.asterisk.org/pub/telephony/asterisk/ after downloading asterisk, extract the asterisk tar file by giving following command.

Upgradable PRI Card Installation Guide



#wget http://downloads.asterisk.org/pub/telephony/asterisk/asterisk-11current.tar.gz

Go to asterisk folder and compile the packages as following To install asterisk give the following commands:

[root@pbx1 asterisk-11.4.0]#./configure
make
make install
make config
If this is your first Asterisk Install, you should install the sample configuration files, to do this run:

make samples

5. Software Configurations

Add "alloPL4xxp" at the end of /etc/dahdi/modules file, so that while starting dahdi driver Allo card modules will load automatically.

Add the line <include "dahdi-channels.conf"> in /etc/asterisk/chan_dahdi.conf file.

X

By default the card is ready to use in E1 mode

5.1 T1 mode settings

To configure the card in T1 signaling mode, please add the following,

(i) Add "options alloPL4xxp default_linemode=t1" at the end of /etc/modprobe.d/dahdi.conf

5.2 Dahdi Configuration

After Dahdi driver installation to list out the Dahdi hardware devices run the command "dahdi hardware" from the command prompt a sample output is shown below.

[root@pc]# dahdi_hardware

pci:0000:01:00.0 allo4xxp- 1d21:1220 Allocard 2aCP2e (2nd Gen) pci:0000:03:00.0 alloPL4xxp- 1d21:1340 Allocard 3aCP4e (3rd Gen)

After compiling and installing DAHDI and Asterisk, load the Dahdi driver by running:



- # /etc/init.d/dahdi start
- # dahdi_genconf -vvvvv

By running **"dahdi_genconf"**, it will generate /etc/dahdi/system.conf and etc/asterisk/dahdichannels.conf automatically. Check whether the generated files information agrees with your hardware setup, if not, you should modify to your specific requirements.



Dahdi_genconf-vvv channels configure with Asterisk

Do not forget to include"dahdi-channels.conf" in "chan_dahdi.conf" to configure Dahdi channels with asterisk, if not, run command:

```
# echo "#include dahdi-channels.conf" >> /etc/asterisk/chan dahdi.conf
```

Execute the following command:

```
# dahdi cfg-vvvvv
```

This command is used for the entire spans channels configuration.

Start the Asterisk by executing

asterisk -gvvvvvvvv

Make sure that PRI spans are up and active, before making calls. Here is the command to check

the PRI span status

CLI>pri show spans

```
*CLI> pri show spans
PRI span 1/0: In Alarm, Down, Active
PRI span 2/0: In Alarm, Down, Active
PRI span 3/0: Up, Active
PRI span 4/0: In Alarm, Down, Active
*CLI>
```

PRI Span Status (4 Ports PRI Card)



6. Digital E1/T1 card Installation through GUI

6.1 Installation of GUI software

Download latest ALLO PRI card GUI/ Free Conference Server software available from <u>http://allo.com/pri-upgradable-card.html</u> under "Free Conference Software".

 The file downloaded will need to be extracted before compiling. Use the GNU tar application to extract the source code from compressed archive. This is a simple process that can be achieved through the following command:

\$tar xvfz conferenceserver_<version>.tar.gz

2. Go to PCS folder executes.

\$cd PCS

3. Run Install Script

\$./install_gui.sh

If user have own web server they can configure it by using the steps given below. Otherwise choose installation script to install the packages and configure it.

While installing webserver, using the installation script choose the type of OS in use.

- I. Select the installer script to install the webserver (lighttpd-1.4.35)
- II. Select the installer script to install sqlite3 (v3080702)
- III. Select the installer script to install php5 (v5.5.16)
- IV. php- sqlite3 binding: success
- V. Enter the path to copy the GUI related files in webserver ("/var/www"[default])
- VI. Enter the webserver user name ("www-data" [default])
- VII. Copied GUI files to /var/www/GUI

If everything goes fine "success" will be printed.

4. Configure AMI (Asterisk Manager Interface) in manager.conf .You can use the previous settings if any.



Eg:[general] enabled = yes webenabled = yes port = 5038 bindaddr = 0.0.0.0 [admin] secret = admin

read = system,call,log,verbose,agent,user,config,dtmf,reporting,cdr,dialplan
write = system,call,agent,user,config,command,reporting,originate,message

6.1.1 Manual Configuration for Webserver

Add root permission for the web server user.

Edit the file Vi /etc/sudoers.

```
1. Add the following line to the end of the file.
<http-server-username> ALL= NOPASSWD: ALL
Ex. www-data ALL= NOPASSWD: ALL
```

The web server user may vary for different web server.

 $\mbox{2. If line present } defaults \ requiretty \ comment it out. \\$

Ex. #Defaults requiretty

3. Add default secure path
Ex. Defaults
secure_path="/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:
/sbin:/bin"

6.2 Installation & Configuration of Digital card through GUI

Go to address bar of the browser, enter the IP address e.g.: 192.168.0.62/GUI

Login using the default username & password

Default:

www.allo.com



Username: install-pri

Password: install-pri

Successful login takes you to the ALLO.COM'S E1/T1 Card GUI.

ð	PRI / Conference Server
1	
1	install-pri
5	•••••
	Login

Login page

		Download Last	Install Log	Refresh	Welcome Administr	ator			
Card Installation >	Card Install	ation 1							
	Drivers List								
	Datashe	et - <u>Download Now</u>							
	Quick Ins	stallation Guide (1, 2, 4 & 8 Ports) -	Download Now			L			
	Upload L	cense Files				L			
	Cards Det	ected: 1				L			
	License P	resent: 2				L			
	Brows	e Upload File List No f	ile selected.			L			
	Allo Daho	Allo Dahdi Drivers (1/2/48 Ports)							
		Call Manager	Option	L					
	Select	Call Manager: 🛛 Asterisk 🛛 💌	Select Dahdi Driver: Dahdi 3	2.6.1 💌	Start Installation	L			
	2		10			L			
						J.			

Card Installation Page



- Click the **browse** button, browse your license file and click open.
- Click the **Upload** button, to upload the chosen file to the web server.
- Click the File List that will display a list of license files already uploaded.
- User can select the Call Manager (Default: Asterisk) and appropriate dahdi driver from the drop down list.
- Click Start Installation.

<pre>etting echocam for channel 105 to mg2 etting echocam for channel 107 to mg2 etting echocam for channel 108 to mg2 etting echocam for channel 100 to none etting echocam for channel 110 to mg2 etting echocam for channel 111 to mg2 etting echocam for channel 112 to mg2 etting echocam for channel 113 to mg2 etting echocam for channel 115 to mg2 etting echocam for channel 116 to mg2 etting echocam for channel 116 to mg2 etting echocam for channel 116 to mg2 etting echocam for channel 119 to mg2 etting echocam for channel 119 to mg2 etting echocam for channel 119 to mg2 etting echocam for channel 120 to mg2 etting echocam for channel 120 to mg2 etting echocam for channel 121 to mg2 etting echocam for channel 122 to mg2 etting echocam for channel 124 to mg2 etting echocam for channel 124 to mg2 etting echocam for channel 124 to mg2</pre>	100)%					Finished
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etting echocan for channel 113 to mg2 etting echocan for channel 114 to mg2 etting echocan for channel 115 to mg2 etting echocan for channel 116 to mg2 etting echocan for channel 117 to mg2 etting echocan for channel 118 to mg2 etting echocan for channel 120 to mg2 etting echocan for channel 121 to mg2 etting echocan for channel 122 to mg2 etting echocan for channel 122 to mg2 etting echocan for channel 123 to mg2 etting echocan for channel 124 to mg2 etting asterisk:	etting	echocan	for	channel	112	to mgZ	
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etting schocan for channel 121 to mg2 etting echocan for channel 122 to mg2 etting echocan for channel 123 to mg2 etting echocan for channel 124 to mg2 tarting asterisk:	etting	ecnocan	IOT	channel	120	co mgz	
etting echocan for channel 122 to mg2 etting echocan for channel 123 to mg2 etting echocan for channel 124 to mg2 tarting asterisk:	etting	echocan	for	channel	121	co mgz	
etting echocan for channel 123 to mg2 etting echocan for channel 124 to mg2 tarting asterisk:	etting	ecnocan	for	channel	122	co mgz	
tarting asterisk:	eccing	echocan	for	channel	124	o mgz	
	torting	ecnocan	-les	channel	124	о шди	
	carcing	asceris	on.				
	.)))

Installation Details

Click "CLOSE WINDOW" button, it will re-direct to the login page.

Login using the default username & password

Default:

Username: admin

Password: admin

Successful login takes you to the ALLO.COM'S E1/T1 Card GUI.







6.3 Dashboard

ALLO Upgradable E1/T1 Digital Card Dashboard summarizes the card status. User can download the last install logs from the dashboard page. The Dashboard shows Card details, Span details, number of cards inserted along with echo cancellation details (if available), detected cards and utilities etc.

erisk Status: 🥁 Connected			Download Last In	stall Log		Refresh		Welcome Administrato
Dashboard >	Dashboard	d @						
AMI Configuration								
E1/T1 Settings	Installed Softwa	ire: PRI						
Module Options	Card Details							
E1/T1 Status				1		2	3	4
Re-Install Card	E1 Span Statu	<u>15.</u>						
Re-Install Card	E1 Span Statu Cards Inserted echo cancella Cards Detecte	<u>s:</u> tion for 128 channels d <u>i</u> No.	Name	Ports	Generation	Card ID	Card Type	•
Re-Install Card	E1 Span Statu Cards Inserted echo cancella Cards Detecte	<u>is:</u> <u>d:</u> No. PA079048.61400004	Name Allocard	Ports 4 port	Generation Gen 3	Card ID 1d21:1340	Card Type PCI-Express	•
Re-Install Card	El Span Statu Cards Inserter echo cancella Cards Detecte Utilities:	is: tion for 128 channels d: No. PA079048:01400004	Name Allocard	Ports 4 port	Generation Gen 3	Card ID 1d21:1340	Card Type PCI-Express	-
Re-Install Card	El Span Statu Cards Inserter echo cancella Cards Detecte Utilities: Reso	is: d: 1 tion for 128 channels d: No. PA07904861400004 et Card Stop Asterisk	Name Allocard Start Acterisk	Ports 4 port Stop D	Generation Gen 3 ahdi Start Da	Card ID 1d21:1340	Card Type PCI-Express Details Comman	nd: dmesg
Re-Install Card	E1 Span Statu Cards Inserter echo cancella Cards Detecte	<u>is:</u> <u>tion for 128 channels</u> <u>d:</u> No. PA079048 61400004	Name	Ports 4 port	Generation Gen 3	Card ID 1d21:1340	Card Type PCI-Express	

Dashboard

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6.4 AMI Configuration (Asterisk Manager Interface)

The PRI GUI will communicate with asterisk using the AMI. Enter the AMI configuration details. (Please refer installation steps)

IP Address	127.0.0.1	
Port	5038	
Username	admin	
Password		
	IP Address Port Username P <i>ass</i> word	IP Address 127.0.0.1 P ort 5038 Username admin P assword ••••••

AMI Configuration

Configuration Parameters

IP Address	Default: 127.0.0.1 (Readable only)
Port	Enter the Port number used for AMI. Default: 5038
Username	Enter the AMI username. Default: admin
Password	Enter the AMI password. Default: admin

6.5 E1/T1 Settings

This section provides the ability to modify the E1/T1 PRI settings depending on the carrier (E1/T1), signal type, switch type etc with respect to the service provider.

Iodule Options	Name (Type)	Span No.	Timing Source	Signal Type	Framing	Coding	CRC
/T1 Status	PRI1 (E1)	1	1 (External) 💌	PBI 💌	CCS 🐱	HDB3 🛩	
e-Install Card		Switch	Line Build-Out	Sigr	al Role	bchan(Start)	bchan(End)
		EuroISDN 💌	0 db (CSU)/0-133 fee	t (DSX-1) 🔽 🛛 Cu:	tomer End 💌	1 💌	31 🗸
		dchan	Hardhdic	Echo	Cancellation		
		16		mg2	~		

E1/T1 Settings



Click **Change Span Type** button, to set the span type either E1 or T1.



Change Span Type

Select the carrier type, E-carrier (E1) or T-carrier (T1) depending upon lines provided in your country. Default: **E1.**

Name (Type)	It shows the name of the PRI card with type.
Span No	It shows the span number of E1/T1 PRI card.
Timing Source	It specifies the Timing Source: 0(internal), 1n (External)
Signal Type	Select the signaling type from the drop down menu.
	Options for E1 : PRI, E1-R2
	Options for T1: PRI, E & M, and E&M Wink
Framing/Coding	Select Proper Framing & Coding by checking with your service
	Provider. If CRC is enabled from Telco side, Please select checkbox
	on CRC4 to enable CCS/HDB3/CRC4. If not select CCS/HDB3.
	Default for E1: CCS/HDB3
	Default for T1: ESF/B8ZF
	Default for MFCR2:CAS/HDB3
CRC	User can either enable or disable this option.
Switch	Select the switch type as indicated by the ISDN service provider.
	Default: E1- Euro ISDN & Q.SIG.
Line-Build-Out	It depends on the line length for which attenuation is defined.
	Default: 0 db . Check with your service provider for appropriate Line
	build out settings if you face any issue.



Signal Role	User can select either Customer End or Network End from the
	dropdown menu.
bchan Start/End	B-channel carries data, voice and other services.
Echo Cancellation	User can select the different echo cancellation channels from the
	drop down menu.

6.6 Module Options

User can set the module options if it's required. Default settings will work automatically. The modules can be used in T1 or E1 networks, selectable by software configuration. The integrated channel service unit/data service unit (CSU/DSU) function allows customers to consolidate customer premises equipment (CPE). The modules support balanced and unbalanced E1 connectivity and conform to the G.703 and G.704 standards for unframed and framed E1 modes.

The Channelized T1/E1 modules work with the digital module in the Allo PRI Card series.

y riz socialitys	dohua		may latanau	<u>11</u>
odule Options >	nennð	0	max_ratency	
l/T1 Status	noburst		j1mode	0
e-Install Card	timingcable	0	sigmode	
	t1e1override	-1	latency	1
	alarmdebounce	2500	ms_per_irq	1
	losalarmdebounce	2500	ignore_rotary	
	aisalarmdebounce	2500	vpmsupport	1
	yelalarmdebounce	500	vpmdtmfsupport	-1
	Jourannaeocanoo	000	(prinarino apport)	

Module Options

6.7 E1/T1 Span Status

This page displays a detailed status of each E1/T1 Port with individual channel information, available on the E1/T1 PRI Card.

AMI Configuration																																
E1/T1 Settings	Channel Statu	is: E1																														
DID LUL	Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
DID List	🦲 Port 1 [+]	0	0				0	0					0	0				0	0			0	9	0		9	0		0			0
Email Settings	🧖 Port 2 [+]	0	0	0		۲		0				0	0	0		0			0	9		0					0					0
Module Options	🛅 Port 3 [+]	0		6	0		0	6	6		0	0			0	0		6	6	0			6	0	8	0	0			9	0	0
E1/71 Photos >	🦲 Port 4 [+]	0	0		•	9	0	•	9				9	9	9			9	0	9		0				9	9	0	9			•
C1/11 Status	🥚 Busy 😜	ldle	6	Disa	abled																											
Re-Install Card	Not in servic	e		Rem	ote A	larm l	ndica	tion		n 4	otive		1	Devi	ce Ui	ndete	cted															

E1/T1 Span Status

Channel Status	Description
	Not in Service
	Remote Alarm Indication
	Active
	Device Undetected

Channel Status	Description
•	Busy
9	Idle
Θ	Disabled



6.8 Re-Install Card

User can select an option either clean or distclean to re-install the E1/T1 PRI card.

AMI Configuration	
E1/T1 Settings	Options
Module Options	Place select an ention:
E1/T1 Status	Clean
Re-Install Card 🔉	
	Start Re-Installation

Re-install Card (Dahdi Driver)

Click Start Re-installation, to re-install your Dahdi Driver.

If you change the options (clean & distclean) to your Dahdi driver, it's necessary to re-install the card.

7. Welcome Administrator

sterisk Status: 🤘 Connected	Download Last Install Log	Refresh	Welcome Administrator
			Web Settings
			Logout

Welcome Administrator

Web Settings

Navigation through Welcome **Administrator** > change the **Web Settings.** Here you can change the administrator password.



Web Session Timeo	<u>out</u>	
Session Timeout	3600	(seconds)
<u>Default Filtering</u>		
Entries per page	All 💌	
<u>Change Password</u>	⊙Yes ONo	
Old Password	•••••	
New Password	•••••	
Re-type Password		

Web settings

Web Session Timeout	It specifies the duration after which current web login
	session expires. Default: 3600 sec.
Default Filtering	It specifies the number of entries in a table per page to be
	displayed.
Change Password	User can modify the Administrator password here.

Click on **"SAVE** "button, followed by "**APPLY CHANGES**" button to update the configuration changes.

Logout: It will take you out of the web interface.

If you face any issues, please contact the reseller from whom you have purchased the ALLO product or submit a support ticket <u>http://support.allo.com/</u>

Thank you for choosing

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Adarsh Eco Place, #176, Ground Floor, EPIP Industrial Area, Kundalahalli KR Puram Hobali, Whitefield, Bangalore - 560066.

Email: globalsales@allo.com indiasales@allo.com

Phone: +91 80 67080808