

Trinity Theatre Internal Phone System.

The phone system consists of 5 **Voice over internet Phones**, located in the following locations

- 1) Lighting Box
- 2) Stage Manager's Corner
- 3) Theatre Bar
- 4) Box Office
- 5) Clubroom

The phones are connected by means of a piece of 'free' software call *FreePBX*. The free refers to the fact that the software is open source. However there is no charge to use the software as long as it is not connected the 'trunk' telephone system.

The FreePBX program is running on the Dell PC situated on top of the Box Office. It was downloaded as an image file from the <https://www.freepbx.org/> website and copied onto a usb memory stick and then loaded onto the PC's hard drive. Also situated near this PC is the network switch, to which all the **VoiPs** are connected

The software is based on the *asterisk* program and runs under linux. In the event of a power failure the software should start automatically, however it could take several minutes before the software is fully operational. When the computer boots up it is necessary to login to linux system before any changes can be carried out. The user name is **root** and the password is **freePBX1897**. Once logged in, you are only at the linux terminal. In order make any changes to the software you have run the program to view the *asterisk* software. This is done by typing **asterisk -rvvv** at the command prompt. However the *asterisk* software is very complicated and any changes to the phone system are best achieved by means of the GUI. This done by using a separate PC that is also connected to the network.

On a separate PC open up a web browser and type **192.168.1.183** in the address window. This is the network address of the Dell PC running FreePBX. This is a reserved address and should only ever be associated with this PC. If the software is running correctly you should be taken to Dashboard webpage for the FreePBX software. The user name is **admin** and the password is **freePBX1897**. On this page you should be able to see how many phones are connected to the system and how many are on line. Using this interface it is possible to add and remove phones from the system.

When you add a new phone to the system you have to enter its extension number and password into this software. You must also enter the extension number, password and the server IP address (**192.168.1.183**) into the account page of the new phone. Each phone manufacturer's account page, and login instructions are different so you must search the web for details of how to do this. As of Apr 2025 the details of the 5 extensions are as follows.

	Location	Ext Nr.	Network Add.	Phone Type
1)	Lighting Box	100	192.168.1.144	Yealink
2)	Stage Man.'s Corner	800	192.168.1.113	Yealink
3)	Theatre Bar	300	192.168.1.110	Yealink
4)	Box Office	400	192.168.1.74	Grandstream
5)	Clubroom	500	192.168.1.116	Yealink

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Yealink phone login with user = admin password = admin

Grandstream phone login with user = admin password = admin

Aastra 57i phone login with user = user password = "" (blank)

Useful Internet/YouTube videos -

<https://www.uccollabing.com/asterisk-freepbx-on-raspberry-pi/> **Installing FreePBX**

https://www.youtube.com/watch?v=ox_aSlcaofE **Add Extensions to freePBX**

<https://www.youtube.com/watch?v=B9V1nda7JXQ> **Manual Extensions**