

Generating Xorcom Licenses

Use the following procedure to activate ports, hardware echo cancellation, and/or the TwinStar functionality by generating a software license unique to the Xorcom device at hand.

Stage 1: Determining the Existing License for the Xorcom Unit

1. Access the Asterisk server via SSH protocol.
2. Use the following command to see which USB devices are connected:

```
# lsusb
```

then press `Enter`

Here is a sample result:

```
Bus 003 Device 001: ID 0000:0000
```

```
Bus 002 Device 001: ID 0000:0000
```

```
Bus 001 Device 001: ID 0000:0000
```

```
Bus 001 Device 002: ID e4e4:1162
```

```
Bus 004 Device 001: ID 0000:0000
```



3. Mark down the **Bus #** and the **Device #** for the USB device with an ID that begins “e4e4:116”. As per our example in step 2 above, we would indicate **Bus = 001** and **Device = 002**.
4. Use the following command to receive a listing of the current license of the unit:

```
# astring_allow -D /proc/bus/usb/[Bus #]/[Device #]
```

then press `Enter`

As per our example in step 2 above, our command line would be:

```
# astring_allow -D /proc/bus/usb/001/002
```
5. On the screen which appears, copy all text to the clipboard. The text begins with-----
BEGIN TELEPHONY DEVICE LICENSE BLOCK---- and ends with ----END TELEPHONY DEVICE
LICENSE BLOCK-----
6. Save this output in a file named `license.txt`.

Stage 2: Purchasing the Updated License

1. Generate a purchase order to Xorcom
 - a. Check the price list for ports/functionality that you want to **add** to the unit

- b. Include the `license.txt` file you generated in the previous step
2. Xorcom will verify the license output and generate a new license as per your purchase order called `new-license.txt`.
3. Xorcom will send you the new license file, together with invoice.

Stage 3: Applying the Updated License to the Unit

1. Stop Asterisk using the following command:

```
/etc/init.d/asterisk stop
```
2. Stop DAHDI (or Zaptel) using the following command:

```
/etc/init.d/dahdi stop (or /etc/init.d/zaptel stop)
```

Note: you can use both if you don't know which software is installed on the unit.
3. Use the following command to apply the updated license to the unit:

```
# astring_allow -D /proc/bus/usb/[Bus #]/[Device #] -w
```

then press `Enter`
4. To apply the new license, paste the contents of the clipboard into the command line

```
-----BEGIN TELEPHONY DEVICE LICENSE BLOCK-----
Version: 1.0
Timestamp: 1332317538
Serial: X1044366
Capabilities.Port.FXS: 8
Capabilities.Port.FXO: 8
Capabilities.Port.BRI: 0
Capabilities.Port.PRI: 0
Capabilities.Port.ECHO: 0
Capabilities.Twinstar: 0
Data:
c0e4e460110101005831323334353637
0800000101000000628d694ff215fc78
01108793550ded611a8d2fd7
-----END TELEPHONY DEVICE LICENSE BLOCK-----
```

press `Enter`
then press `'Ctrl+D'`
5. Next, you will need to restart the Xorcom firmware.

DAHDI users should run the following command:

```
/usr/share/dahdi/xpp_fxloader reset
```

Zaptel users should run the following command:

```
/usr/share/zaptel/xpp_fxloader reset
```

6. The new ports are now activated, but will need to be configured and tested prior to shipment.