



# **Install Guide**

## **For Tango Series Smart Consoles (Nuendo 4)**

Revision 1.1  
Date 4th Aug 2008

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# INTRODUCTION

Welcome to Tango!

Tango is a unique console – a mix of tradition and new ideas. A console intended not just for mixing but also for every aspect of audio production.

The chapters below will guide you through the process of setting up your Tango console, connecting it to your DAW and configuring your DAW to provide the most seamless integration with your console.

You should allow 30 to 60 minutes to complete this setup process and you will need access to the Smart AV website.

**IMPORTANT:**

**The Tango Console only supports Nuendo 4. It does not support any earlier versions of Nuendo.**

**WARNING:**

**Do not adjust the BIOS or install any other software of any kind on Tango. Adjusting the BIOS or installing other software will invalidate the warranty and may cause Tango to fail to boot or the screen to go blank requiring the return of the unit to the distributor.**

**WARNING:**

**This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.**

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# TABLE OF CONTENTS

<b>POWER CONNECTION .....</b>	<b>4</b>
<b>SWITCHING POWER ON/OFF .....</b>	<b>5</b>
<b>NETWORK CONNECTIONS.....</b>	<b>6</b>
<b>DOWNLOAD SOFTWARE.....</b>	<b>9</b>
<b>UPGRADING TANGO SOFTWARE .....</b>	<b>11</b>
<b>DAW SETUP – NUENDO.....</b>	<b>13</b>
<b>VIRTUAL KEYBOARD SETUP.....</b>	<b>19</b>

## POWER CONNECTION

### IMPORTANT:

**To ensure the correct operation of the touch sensitive controls of Tango the mains supply connection MUST include an earth connection.**

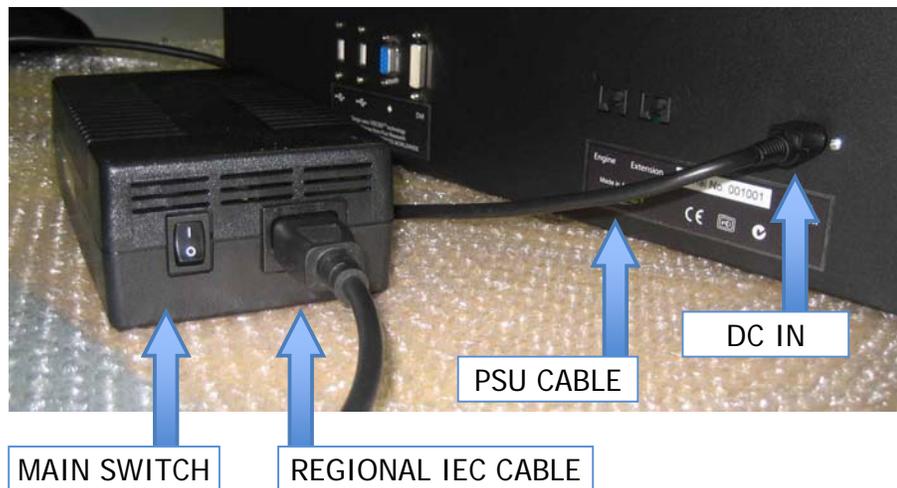
Tango is connected to the mains via an external power supply (PSU) which is included with the console. This power supply is suitable for use with mains voltages of 100 – 240V 50/60Hz. The incoming power connector on the power supply is an industry standard IEC connector. You will need a suitable IEC mains cable with the correct plug for your region (not supplied).

### WARNING:

**Using any power supply other than the unit supplied with Tango could cause permanent damage to the console and will invalidate the warranty.**

You can connect the power supply to the console and the mains as follows:-

- Connect the cable that is attached to the power supply to the connector marked “DC IN” on the rear of the console. Push this connection in firmly to ensure the latch mechanism engages. To release this cable you need to pull back the connector body to disengage the latch mechanism.
- Connect the IEC connector of the power supply to the mains using a standard IEC cable from your region.
- Ensure the main switch on the power supply is set to the ON position (I).



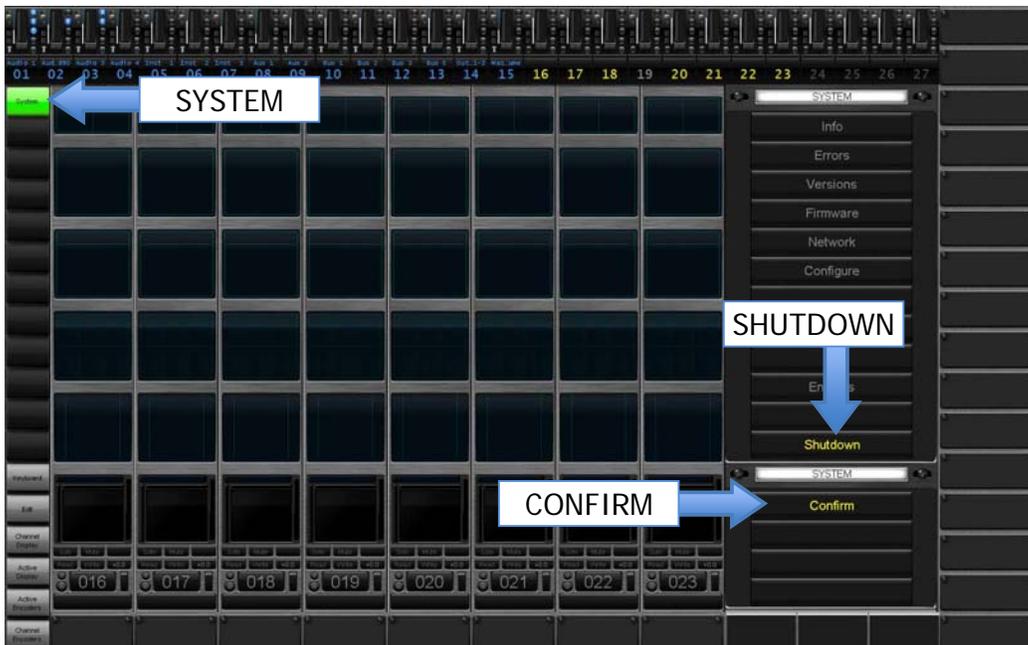
## SWITCHING POWER ON/OFF

Tango is switched on via the power on button and switched off via the “Shutdown” menu command on the touchscreen. Power down should always be done via the “Shutdown” menu to ensure the software is safely closed before power down.

To switch the power on press the “Power On” rocker switch on the LHS rear of the console for 1-2 seconds. You will see the display illuminate and hear a short “beep” after a few seconds. If this does not work, ensure the main switch on the power supply is set to “On” as shown above.



To switch the power off, select the “System” menu tab on the LHS of the display. Then select “Shutdown” from the system menu and “Confirm”. The console will take several seconds to shutdown from this point.

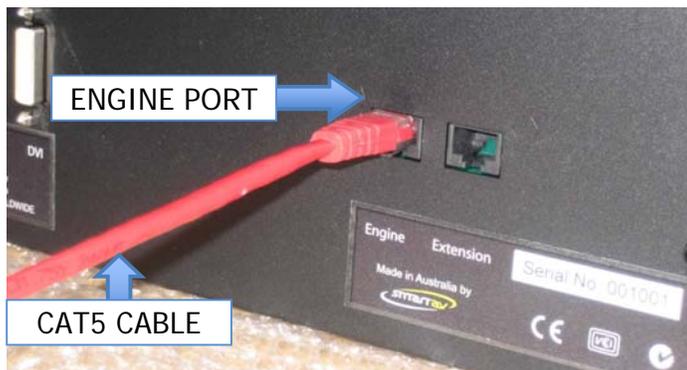


## NETWORK CONNECTIONS

Tango connects to your DAW computer via Ethernet. This connection can be either direct or via an existing network. Some simple network setup will be required to initiate communications between the 2 devices.

If connecting Tango directly to your DAW computer, you will need to use a CAT5 cross-over cable (a CAT5 cross-over cable is supplied with Tango). If connecting via a network hub, an ordinary CAT5 cable should be used.

The network cable is connected to the network port labelled “Engine” on the rear of Tango.



You will need to set the IP address of both Tango and your DAW computer to values that are compatible. If you are connecting via a network you will need to select values that are also compatible with the rest of your network so you should contact your network administrator for valid IP addresses. If you are using DHCP to automatically assign IP addresses to the various computers on your network, Tango can be setup to run in this mode (see the notes below about setting the IP address on Tango). Note that DHCP is enabled on Tango by default when shipped from the factory.

The recommended connection method is direct using the supplied cross-over cable. If you are having problems getting your console to connect to your DAW you should try these recommended settings before proceeding. In this case you should use the following settings for Tango and your DAW computer:-

Tango	IP Address	192.168.2.30
	Subnet Mask	255.255.255.0

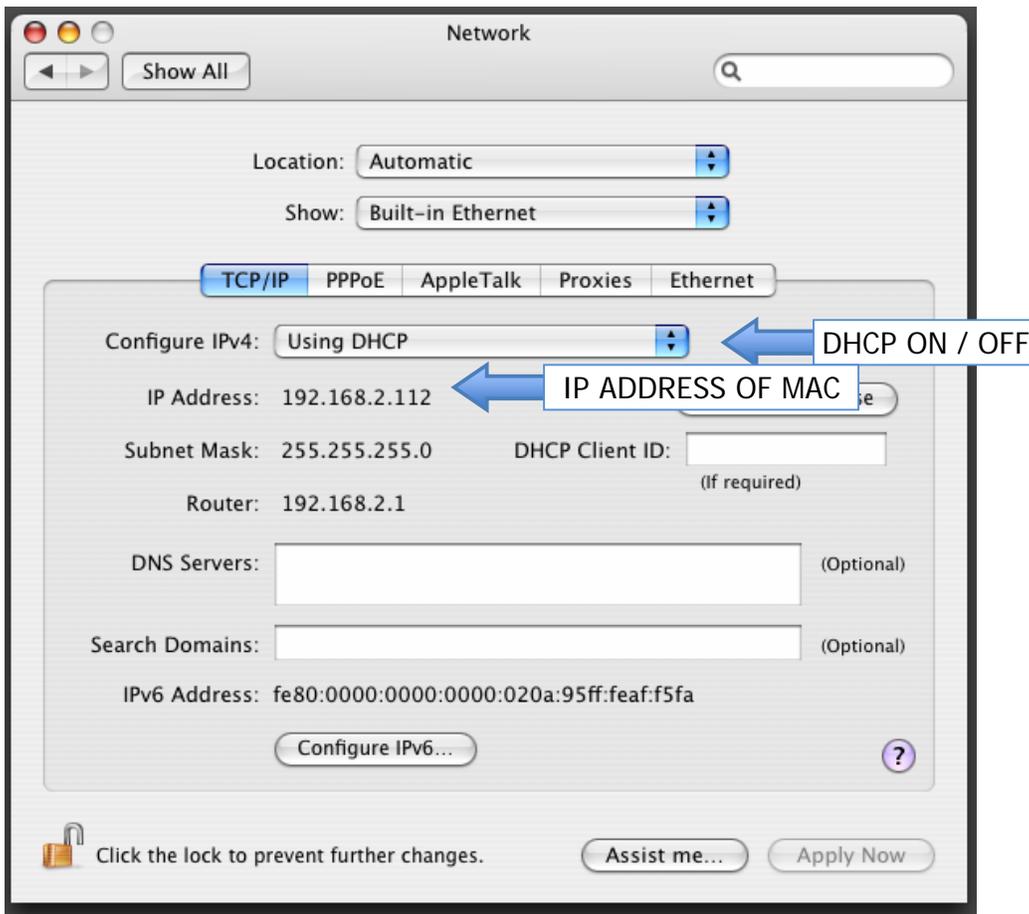
DAW PC	IP Address	192.168.2.31
	Subnet Mask	255.255.255.0

To set the IP address on Tango, follow these steps:-

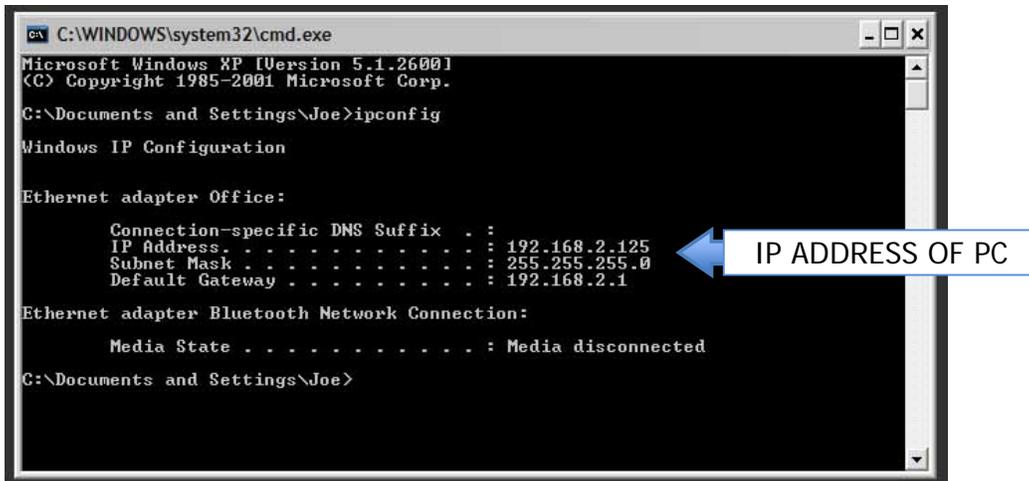
- Select the “System” menu tab on the LHS of the display.
- Select “Network” from the System Menu to access the network settings.

- Use the Active Button below the display to disable DHCP. (Select “Enable” if you wish to use DHCP to assign the consoles IP address.)
- Adjust the IP address using the encoders down the RHS of the display. The digit of the IP address to be adjusted by each encoder is labelled on the display.
- Adjust the subnet mask using the active encoder below the display.
- Select “Apply” from the bottom of the network settings window. Wait a few seconds for the consoles IP address to be adjusted.
- To check the IP address your Tango is using you can touch the “System” menu tab on the LHS of the display and select “Info” from the system menu. The IP address will be the first one listed in the “Console Computer IP Address” box. You will need to perform this task to identify the IP address if you are using DHCP to auto assign the address.

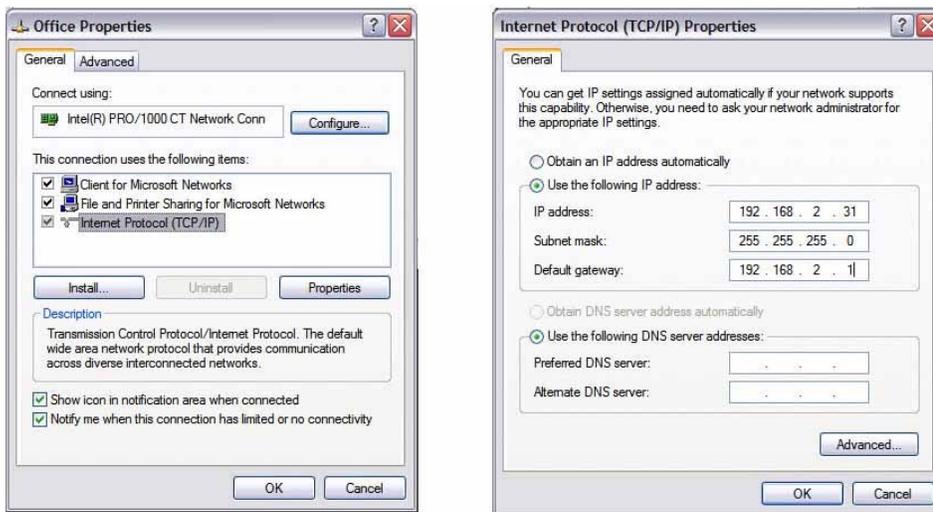
To set you DAW IP address on a Mac, go to the Network panel of your System Preferences. The IP address can be checked or set using this screen.



On a PC, your IP address can be checked by opening a “cmd” window and typing “ipconfig” and <enter>. The IP Address will be listed here for each network adaptor in your PC as shown below.



On a PC, your IP address can be changed by going to Start -> Control Panel -> Network Connections. Right click on the network you wish to change (called office in the graphic below) to get the properties for this connection. Highlight the “Internet Protocol (TCP/IP)” item and click “Properties” to access the Properties Window. Here you can select DHCP (Obtain an IP address automatically) or specify an IP address manually. Click “OK” when done.



You can now test your network setup by running a “ping” command from your DAW computer. On a Mac, open a “terminal” window or on a PC open a “cmd” window. Type “ping 192.168.2.30” and <enter> (or replace 192.168.2.30 with the IP address you have set your Tango console too). You should see a reply message being sent back from your console. If you receive a “timeout” message, you have a network problem. You need to rectify this problem before proceeding.

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\Smart AU>ping 192.168.2.30

Pinging 192.168.2.30 with 32 bytes of data:

Reply from 192.168.2.30: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.2.30:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\Smart AU>_
```

← REPLY FROM TANGO

**IMPORTANT:**

**On a Mac:** Please ensure that the firewall on your DAW computer does not have “Stealth Mode” enabled as it interferes with the connection of Tango and your DAW audio application. On the Firewall Tab of the Security Settings (In System Preferences) – click advanced and make sure Stealth Mode is set to off.



## DOWNLOAD SOFTWARE

Smart AV is continually working to increase the functionality of the Tango console and keep pace with the latest developments in your DAW software. As a result, there will be periodic updates to the various software packages used by Tango and these will be made available on the Smart AV website. Upon receiving your console you should ensure that it has the latest version of software installed and also download the various other software packages that need to be installed on your DAW. You should also periodically check to see if there are more recent versions of the software available so you can take advantage of the new features after your console is put into service.

To check the versions of the console software installed on Tango, follow these steps:-

- Select the “System” menu tab on the LHS of the display.
- Select “Info” from the System Menu to access a list of versions.
- Check the version listed for the “Tango software build number”.



To download the console software from the Smart AV website, proceed as follows:-

- Go to the website [www.smartav.net](http://www.smartav.net)
- Select “Downloads” and then “Software” from the menus
- Locate the directory for the latest release of software
- In the “Console Software” directory, check the listed version for the “Consolesoft XXX YYY Tango” file, where XXX is the software version and YYY is the release date.
- If the software version on the website is different to that on your console, you need to download the file and follow the steps in the next section to install it.
- Copy the downloaded software onto a USB memory stick.

To download the software that is needed for your DAW, proceed as follows:-

- Go to the website [www.smartav.net](http://www.smartav.net)
- Select “Downloads” and then “Software” from the menus
- Locate the directory for the latest release of software
- In the “DAW Software” directory, select either the Mac or PC directory depending on what your DAW is running on.

- Download the following files:-
  - SmartAVNuendoSetupXXX-YYY
  - VirtKeySetup XXX YYY

where XXX is the software version and YYY is the release date.

- Copy all the downloaded software onto a USB memory stick.

### **IMPORTANT:**

**The various software applications running on Tango and your DAW operate as a set. They will be posted on the Smart AV website as a set and you must download and upgrade all applications from both “Console Software” and “DAW Software” at the same time. When checking the versions you must ensure all the versions form a valid set as listed on the website.**

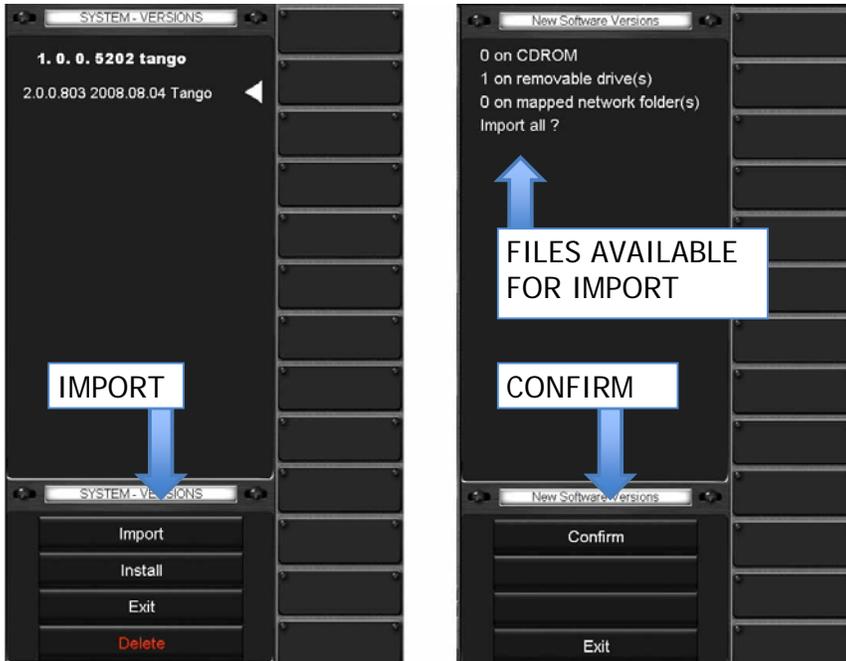
## **UPGRADING TANGO SOFTWARE**

The software applications running on Tango can be easily upgraded by using the USB memory stick that contains the latest versions (downloaded above). Follow these steps to upgrade the software:-

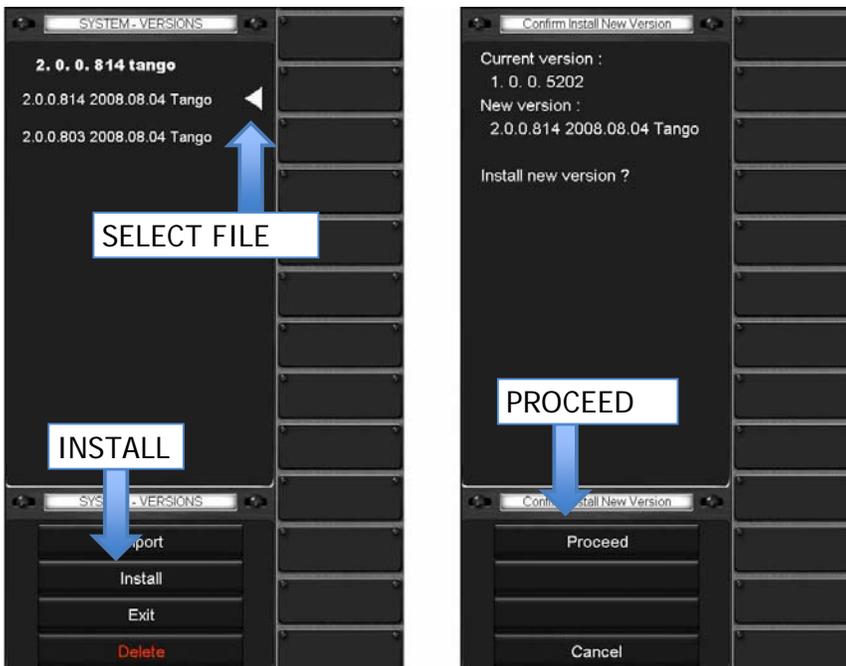
- Insert the USB memory stick into the upper USB port.



- Select the “System” menu tab on the LHS of the display.
- Select “Versions” from the system menu. This will take you to a window which displays all the software versions that are archived on your console.
- Select “Import” to import the new versions from your USB memory stick to the archive on the console. The window will now display a number of versions available for import from your memory stick. If there are “0” versions available, your USB memory stick has not yet been recognised by the console. Press exit and try again in a few seconds.
- Press the “Confirm” button to import the files. This will take a few seconds.

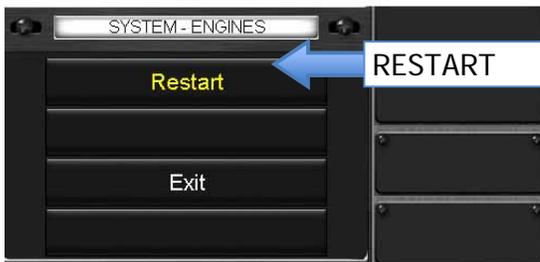


- Use the active knob below the screen to select the version of software you want to install (the one you just imported).
- Once selected press the “Install” button.
- Press “Proceed” to initiate the software upgrade. This will take a few seconds.



- Once complete press “Exit”.
- Select “Engines” from the System Menu to access a list of available engines.

- Select the “Nuendo” option and then touch “Restart”. The software will now restart running the newly installed version.



## DAW SETUP – NUENDO

In order for Tango to communicate with Nuendo, you need to install a number of modules into Nuendo. This section takes you through the steps necessary to either install the modules for the first time or install a newer version of the modules.

The latest revision of these modules was downloaded from the Smart AV website and placed on a memory stick in the section above. Follow the steps below to install this software onto your DAW.

For a Mac:-

- Shutdown Nuendo.
- Copy the file named SmartAVNuendoSetupxxxxx.dmg onto your desktop. The xxx represents the release version and date.
- Double click on the .dmg file. The Mac will now open this file and show an icon called “SmartAVNuendoInstall.pkg”. Double click on this file and follow the prompts to install it on your Mac.

For a PC:-

- Shutdown Nuendo
- Copy the file named SmartAVNuendoSetupxxxxx.exe onto your desktop. The xxx represents the release version and date.
- Double click on the .exe file and follow the prompts to install it on your PC.

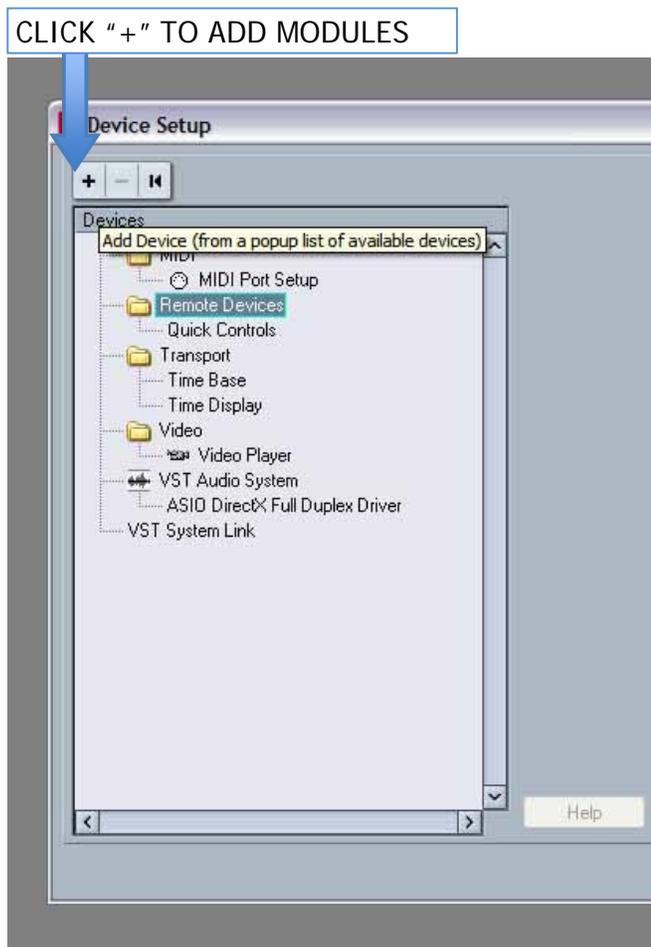
If you have previously installed these modules into Nuendo you do not need to add them again in the following step. They will have been updated automatically by the installation step you just completed. Simply check that all “Smart Console xxx”

devices are displayed under the “Remote Devices” category of the “Device Setup” window. This is important as the new release may contain new devices that have not previously been added to Nuendo.

If this is the first time you have setup Nuendo to work with your Tango console you will need to add all the “Smart Console xxx” devices.

To add the devices, launch Nuendo and proceed as follows:-

- Select the ‘Devices’ menu and then the ‘Device Setup’ menu item.

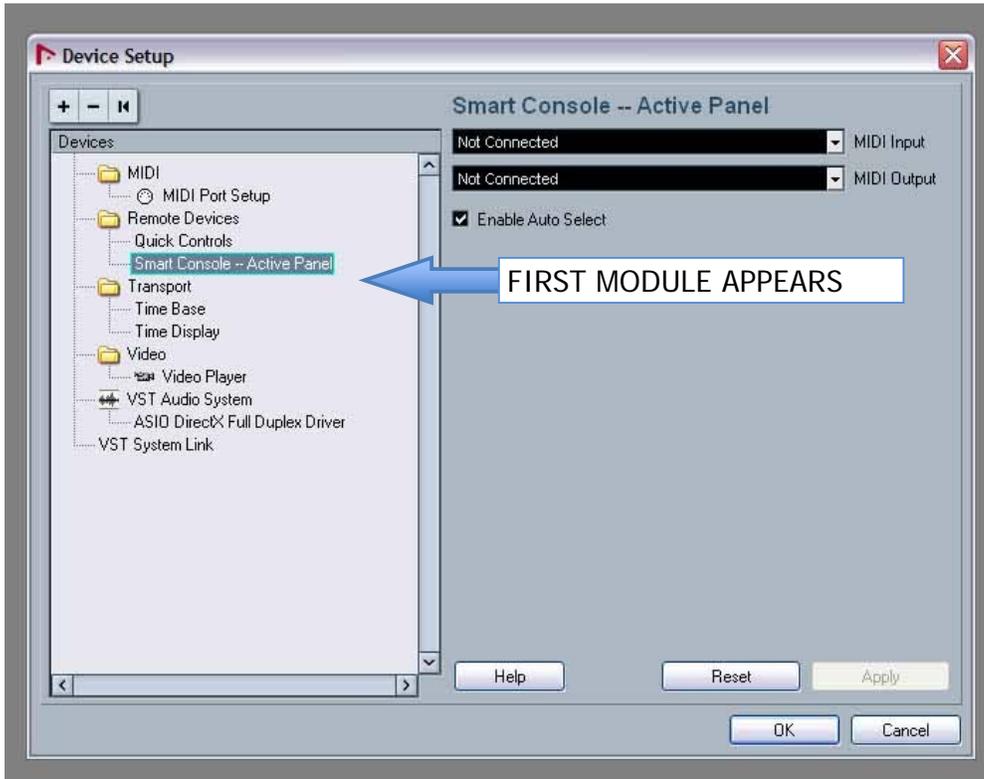


- Click on the icon with a plus symbol on it and then select the first “Smart Console xxx” module in the list.

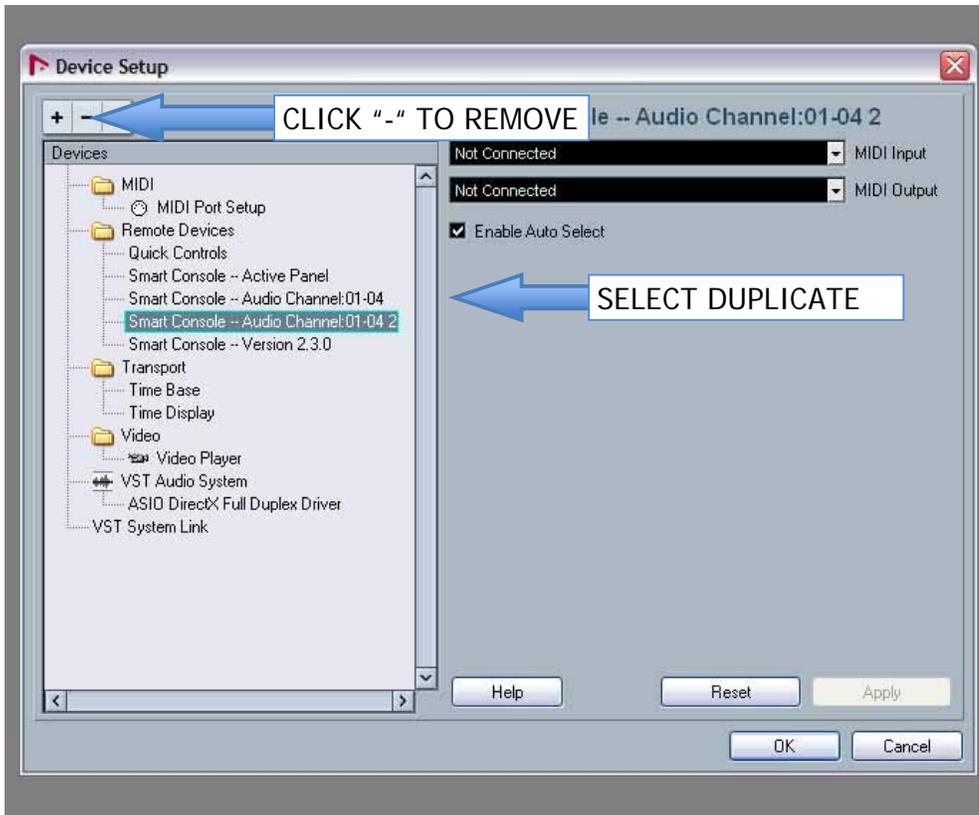
Time Display	Smart Console -- Routing Module
CM Motormix	Smart Console -- Version 2.3.0
Gallery Software ADRStudio	Steinberg Houston
Generic Remote	Tascam DM-24 (HUI)
JLCooper CS-10	Tascam US-428
JLCooper MCS-3000	WK-Audio ID
Mackie Baby HUI	Yamaha 01v
Mackie Control	Yamaha 01v96v2
Mackie HUI	Yamaha 01x
Radikal SAC-2k	Yamaha 02r96v2
Roland MCR8	Yamaha DM 1000v2
<b>Smart Console -- Active Panel</b>	Yamaha DM 2000v2
Smart Console -- Audio Channel:01-04	
Smart Console -- Audio Channel:05-08	
Smart Console -- Audio Channel:09-12	
Smart Console -- Audio Channel:13-16	
Smart Console -- Audio Channel:17-20	
Smart Console -- Audio Channel:21-24	
Smart Console -- Audio Channel:25-28	
Smart Console -- Audio Channel:29-32	
Smart Console -- Audio Channel:33-36	
Smart Console -- Audio Channel:37-40	
Smart Console -- Audio Channel:41-44	
Smart Console -- Audio Channel:45-48	
Smart Console -- Audio Channel:49-52	
Smart Console -- Audio Channel:53-56	
Smart Console -- Audio Channel:57-60	
Smart Console -- Audio Channel:61-64	
Smart Console -- Audio Channel:65-68	
Smart Console -- Audio Channel:69-72	
Smart Console -- Audio Channel:73-76	
Smart Console -- Audio Channel:77-80	
Smart Console -- Audio Channel:81-84	
Smart Console -- Audio Channel:85-88	
Smart Console -- Audio Channel:89-92	
Smart Console -- Audio Channel:93-96	
Smart Console -- FX Channel:01-04	
Smart Console -- FX Channel:05-08	
Smart Console -- FX Channel:09-12	
Smart Console -- FX Channel:13-16	
Smart Console -- FX Channel:17-20	
Smart Console -- FX Channel:21-24	
Smart Console -- FX Channel:25-28	
Smart Console -- FX Channel:29-32	
Smart Console -- Group Channel:01-04	
Smart Console -- Group Channel:05-08	
Smart Console -- Group Channel:09-12	
Smart Console -- Group Channel:13-16	
Smart Console -- Group Channel:17-20	
Smart Console -- Group Channel:21-24	
Smart Console -- Group Channel:25-28	
Smart Console -- Group Channel:29-32	
Smart Console -- Master Channel:01-04	
Smart Console -- Master Channel:05-08	
Smart Console -- Master Channel:09-12	
Smart Console -- Master Channel:13-16	
Smart Console -- Master Channel:17-20	
Smart Console -- Master Channel:21-24	
Smart Console -- Master Channel:25-28	
Smart Console -- Master Channel:29-32	
Smart Console -- Monitor Panel	

SELECT FIRST MODULE

- This module will now install and should appear in the “Device Setup” window as shown below.



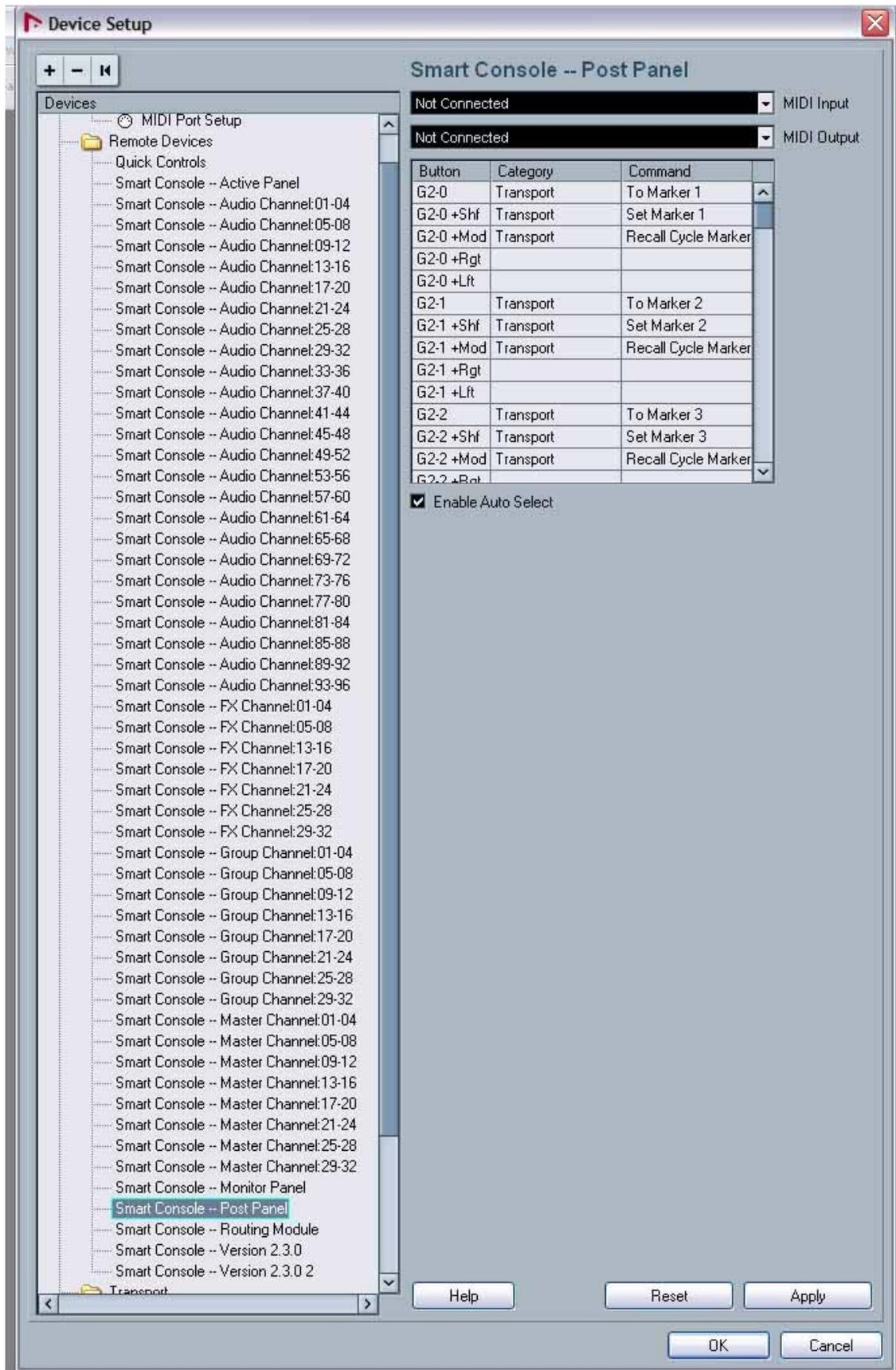
- Now repeat this process for all the “Smart Console xxx” modules in the list. The complete list of modules is as follows:
  - Active Panel
  - Audio Channel :01-96
  - FX Channel :01-32
  - Group Channel :01-32
  - Master Channel :01-32
  - Monitor Panel
  - Post Panel
  - Routing Module
  - Version
- If you select any device more than once you will have duplicates that you must remove. Click on the duplicate device and click the icon with a minus symbol on it.



- Once all modules are added, click “OK”. You should now check you have all devices and no duplicates. The list in the “Device Setup” window should appear as shown below.

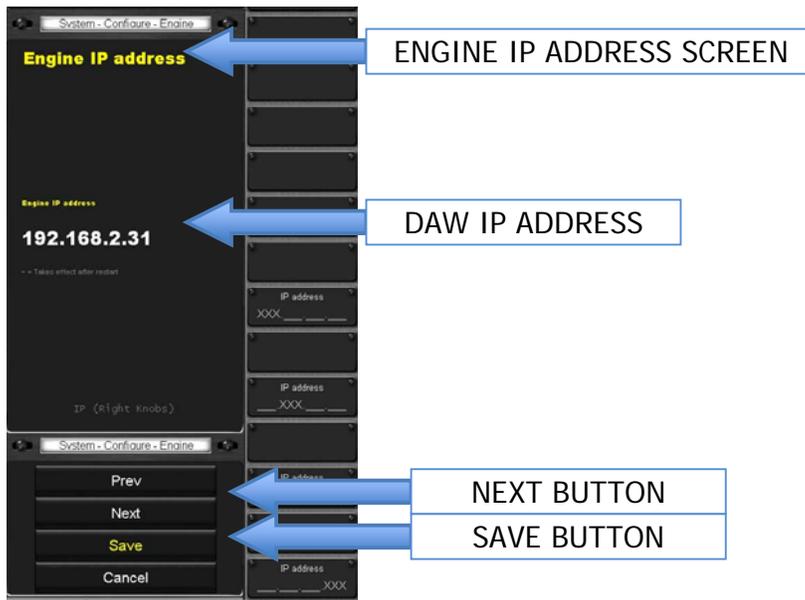
**IMPORTANT:**

**The interface between Tango and Nuendo is Ethernet based, thus there is no need to set any of the Midi Input and Output ports in these modules.**



To point Tango to the IP address of your DAW proceed as follows:-

- Select the “System” menu tab on the LHS of the Tango display.
- Select “Configure” from the system menu and then select “Engine”.
- Use the “Next” button to scroll through to the “Engine IP address” screen.



- Use the knobs on the RHS of the screen to enter the IP address of your Nuendo PC or MAC.
- Select “Save” to save the setting.

Tango should now be connected to Nuendo.

## VIRTUAL KEYBOARD SETUP

Tango contains a virtual keyboard that allows you to name tracks and perform other text entry functions from your console without the need for a separate keyboard. In order to setup this function you must install the Smart AV Virtual Keyboard application on you DAW. Install the Virtual Keyboard software as follows.

For a Mac:-

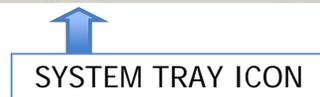
- Copy the file named SmartAVVirtKeySetupxxxxx.dmg onto your desktop. The xxx represents the release version and date.
- Double click on the .dmg file. The Mac will now open this file and show an icon called “SmartAVVirtKey.pkg”. Double click on this file and follow the prompts to install it on your Mac.

For a PC:-

- Copy the file named SmartAVVirtKeySetupxxxxx.exe onto your desktop. The xxx represents the release version and date.
- Double click on the .exe file and follow the prompts to install it on your PC.

Once this is complete the Virtual Keyboard application will start. Configure the application as follows:-

- Double click on the icon in the system tray to bring up the Virtual Keyboard Settings window.



- Enter the IP address of your Tango console in the settings window. This is the IP address assigned to your Tango console in the “Network Connection” section of this manual.
- Ensure the “Run at Startup” box is checked so the application will automatically start up when your DAW is booted.
- Click on the “Apply” button. The connect status bar should now change from red to green, indicating the Virtual Keyboard application is connected to your console. If it stays red, you need to check your settings again.
- Click the “Close” button to close the settings window. The icon will remain in the system tray to indicate the connection status of the application. If the icon turns red it is indicating that the Virtual Keyboard application is no longer connected to the console.

