

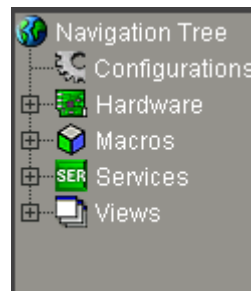
Event Provisioning with Evertz IPG Card (10.74.79.6)

The IPG Card control interface is installed on a virtual machine on the labnet network. The VM can be reached at **10.74.64.119**. (**note:** Unfortunately this IP is DHCP because the VMs on labnet do not have a static IP pool, yet I don't expect it to change). The user is **CSILAB\Administrator** and the password is **Espn123** (what else).

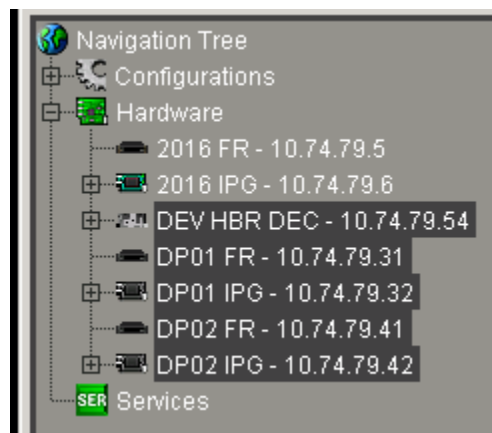
1. Open the VistaProLink application by double clicking the ASIS icon the desktop:



2. At the user prompt, user:2016 pw: leave blank.
3. From the left hand side tree menu select open **Hardware**.

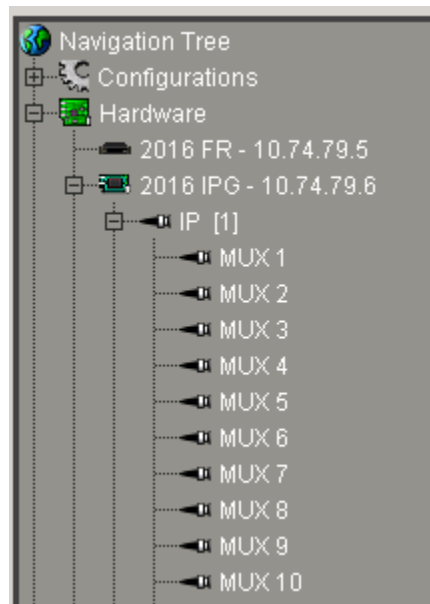


4. Once opened the tree will look as follow:

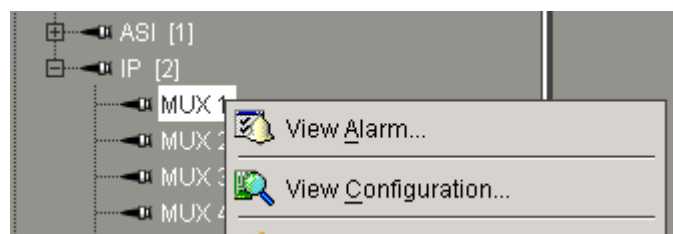


The hardware high-lighted in black are restricted to us and **for ASIS use only**. The hardware listed as **10.74.79.6** is the IPG card configuration for the 2016 configuration.

Open the **2016 IPG – 10.74.79.6** tree. Below that open the **IP [1]** tree to reveal all the MUX outputs. Each MUX output represents a multicast output. 2016 uses **MUX 17** to **MUX 32**.



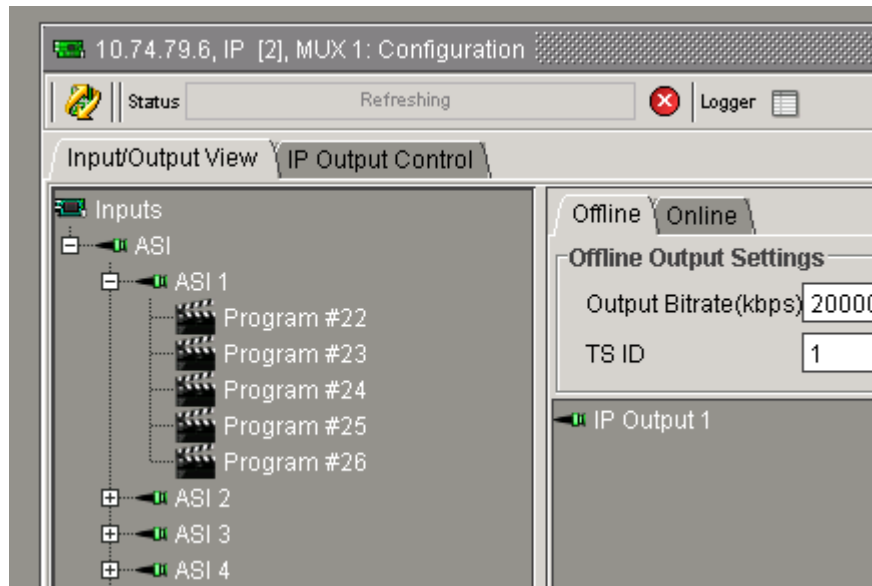
5. To assign a stream to a multicast IP out simple right-hand click on the **MUX #** that will be assigned > select **View Configuration**.



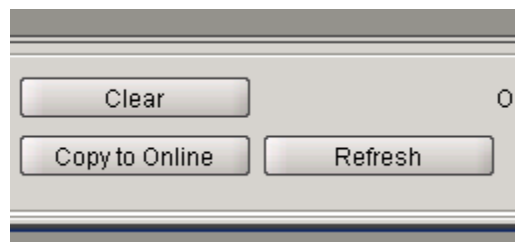
The configuration window for that IP output will open; it will resemble the window for the ASI configuration. One way to identify the window correctly is by looking at the top left corner of the window.



6. In the **MUX #** window open the ASI stream from the left tree that is to be assigned, the tree will reveal the programs associated with that stream.



NOTE: if **IP Output #** already has a program associated with it press the **Clear** button at the bottom and click **Copy to Online** to ensure the clear configuration takes hold at the card.



7. To assign the desired program that will be streamed on this IP out, drag it from the left side tree to the main window under the **IP Output #** title is. (Note: Assigned only program to each IP output). In the case shown here, **Program #22** was dragged into the **IP Output 1** window. A window will open after the drag displaying the program content. Take care to assign the proper PID to the corresponding MUX and type as listed in the table below.

Select	Program Number	Program Name	PMT PID	PCR PID	PID	PID Type	PID Bitrate
☒	22		64	65			
					64	PMT:PGM22	40608 kbps
					65	AVC/H.264	17936680 kbps
					66	AC3 Audio	470752 kbps
					67	AC3 Audio	200032 kbps
					400	DPI	0 kbps

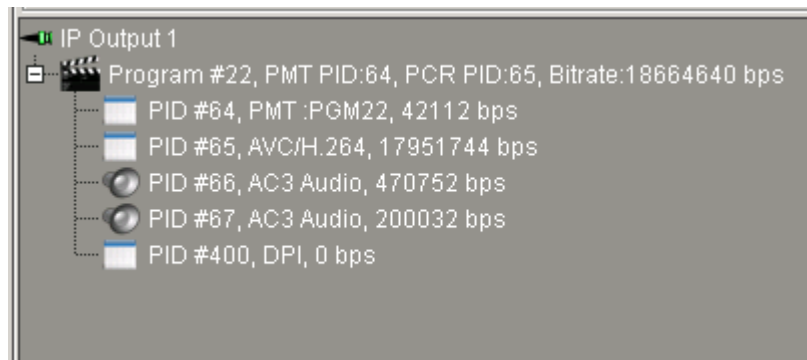
OK Cancel

The MUX being used for 2016 rang as follow

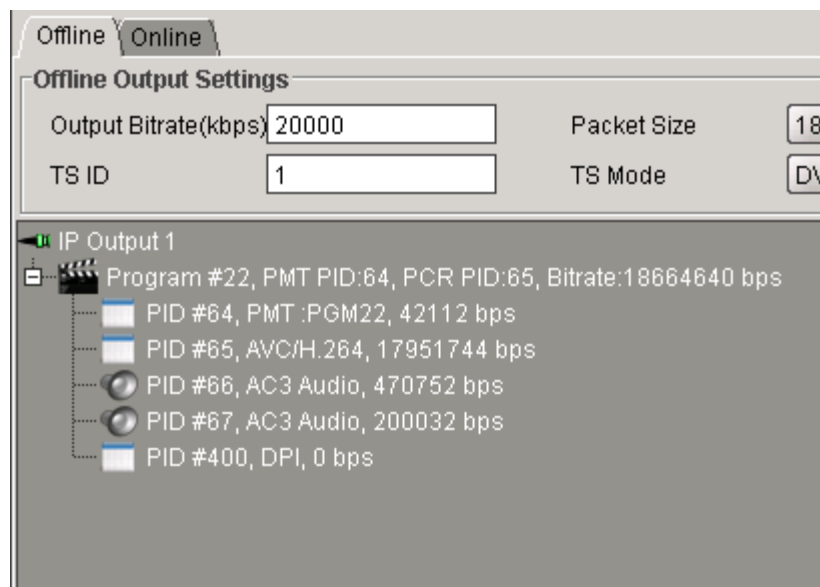
<u>Stream</u>	<u>Associated ASI Router Destination</u>	<u>MUX</u>	<u>PID Settings</u>	<u>Stream</u>	<u>Associated ASI Router Destination</u>	<u>MUX</u>	<u>PID Settings</u>
1	ASIS-001	MUX 17	PMT PID:110 VID PID:111 AUD1 PID:112 AUD2 PID:113 DPI PID: 116	9	ASIS-017	MUX 25	PMT PID:190 VID PID:191 AUD1 PID:192 AUD2 PID:193 DPI PID: 196
2	ASIS-003	MUX 18	PMT PID:120 VID PID:121 AUD1 PID:122 AUD2 PID:123 DPI PID: 126	10	ASIS-019	MUX 26	PMT PID:200 VID PID:201 AUD1 PID:202 AUD2 PID:203 DPI PID: 206
3	ASIS-005	MUX 19	PMT PID:130 VID PID:131 AUD1 PID:132 AUD2 PID:133 DPI PID: 136	11	ASIS-021	MUX 27	PMT PID:210 VID PID:211 AUD1 PID:212 AUD2 PID:213 DPI PID: 216
4	ASIS-007	MUX 20	PMT PID:140 VID PID:141 AUD1 PID:142 AUD2 PID:143 DPI PID: 146	12	ASIS-023	MUX 28	PMT PID:220 VID PID:221 AUD1 PID:222 AUD2 PID:223 DPI PID: 226
5	ASIS-009	MUX 21	PMT PID:150 VID PID:151 AUD1 PID:152 AUD2 PID:153 DPI PID: 156	13	ASIS-025	MUX 29	PMT PID:230 VID PID:231 AUD1 PID:232 AUD2 PID:233 DPI PID: 236
6	ASIS-011	MUX 22	PMT PID:160 VID PID:161 AUD1 PID:162 AUD2 PID:163 DPI PID: 166	14	ASIS-027	MUX 30	PMT PID:240 VID PID:241 AUD1 PID:242 AUD2 PID:243 DPI PID: 246
7	ASIS-013	MUX 23	PMT PID:170 VID PID:171 AUD1 PID:172 AUD2 PID:173 DPI PID: 176	15	ASIS-029	MUX 31	PMT PID:250 VID PID:251 AUD1 PID:252 AUD2 PID:253 DPI PID: 256
8	ASIS-015	MUX 24	PMT PID:180 VID PID:181 AUD1 PID:182 AUD2 PID:183 DPI PID: 186	16	ASIS-031	MUX 32	PMT PID:260 VID PID:261 AUD1 PID:262 AUD2 PID:263 DPI PID: 266

After assigning the PIDs click ok.

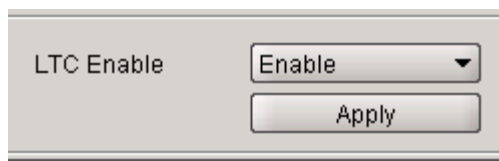
The program info will appear under the **IP Output #** tree. Click the [+] to expand and verify content.



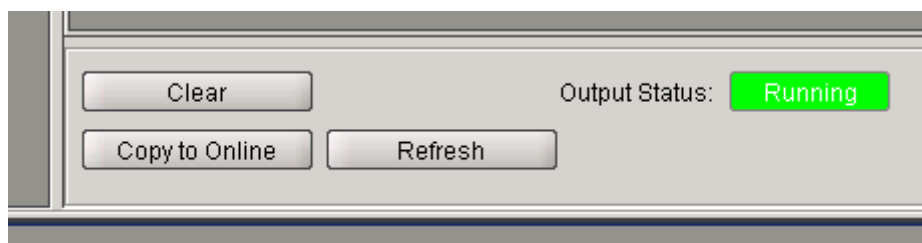
8. In order for the stream to output properly the **Output Bitrate (kbps)** needs to be set to a rate greater than the total bitrate of the programs stream. In this example the program stream is a little over 18Mbps. So the **Output Bitrate (kbps)** should be set to something like 19.5 or 20Mbps. Also noticed I have labeled the **TS ID** stream by its IP output number making it easier to identify downstream.



On the right-hand side of the window, select **Enable** from the **LTC Enable** drop down menu and click apply.



9. This **Apply** only saves the configuration locally, in order for the IPG Card to use the newly set configuration click **Copy to Online** at the bottom of the window. The green light next to the **Output Status** verifies that the stream is running.



10. Close the window.

Confirm Video

To confirm that the video stream from the IPG card is working properly remote desktop to **10.74.72.21** with user: **igadmin** , pw: **1nn0l@b**, open VLC and type, for example, **udp://@224.2.127.1:1234**, enter. The video stream that has been router should play.

The multicast address ranges is from **224.2.127.1 - .14**

Troubleshooting Tip

If troubleshooting, a user can switch to the online tab and see if the bitrate has a number or is zero (zero = no source) and if the running light is still green.

