

Greetings all,

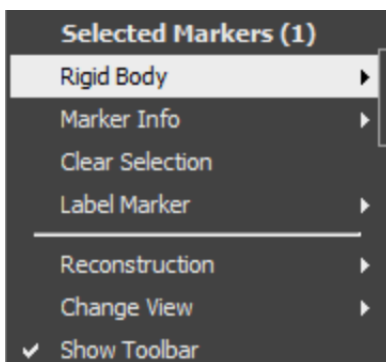
Attached is theMax patches for the optitrack system in the transLAB and the details of getting up and running that we went through yesterday.

**Files:**

- unzip the *TransLAB-Optitrack.zip* file.
- Place the *vrpn.tracker.mxo* and *quat2euler.mxo* in:  
~/Applications/Max 6.1/Cycling '74/max-externals
- Place the *vrpn.tracker.maxhelp* in:  
~/Applications/Max 6.1/Cycling '74/max-help
- Open the "*TransLAB\_optitracker.maxpat*" file
- Restart Max

**Optitrack Motive:**

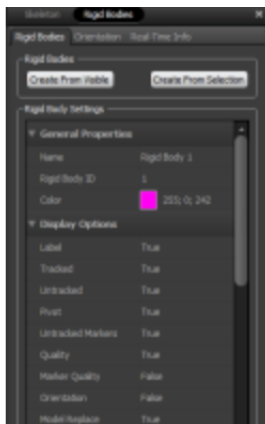
- Open Motive
- Load the Calibration file
- Place a rigid body in the tracked space (*this should be a unique and non-equilateral triangle*)
- Select the 3 points with mouse
- Right click and select rigid body (2nd one down in menu)



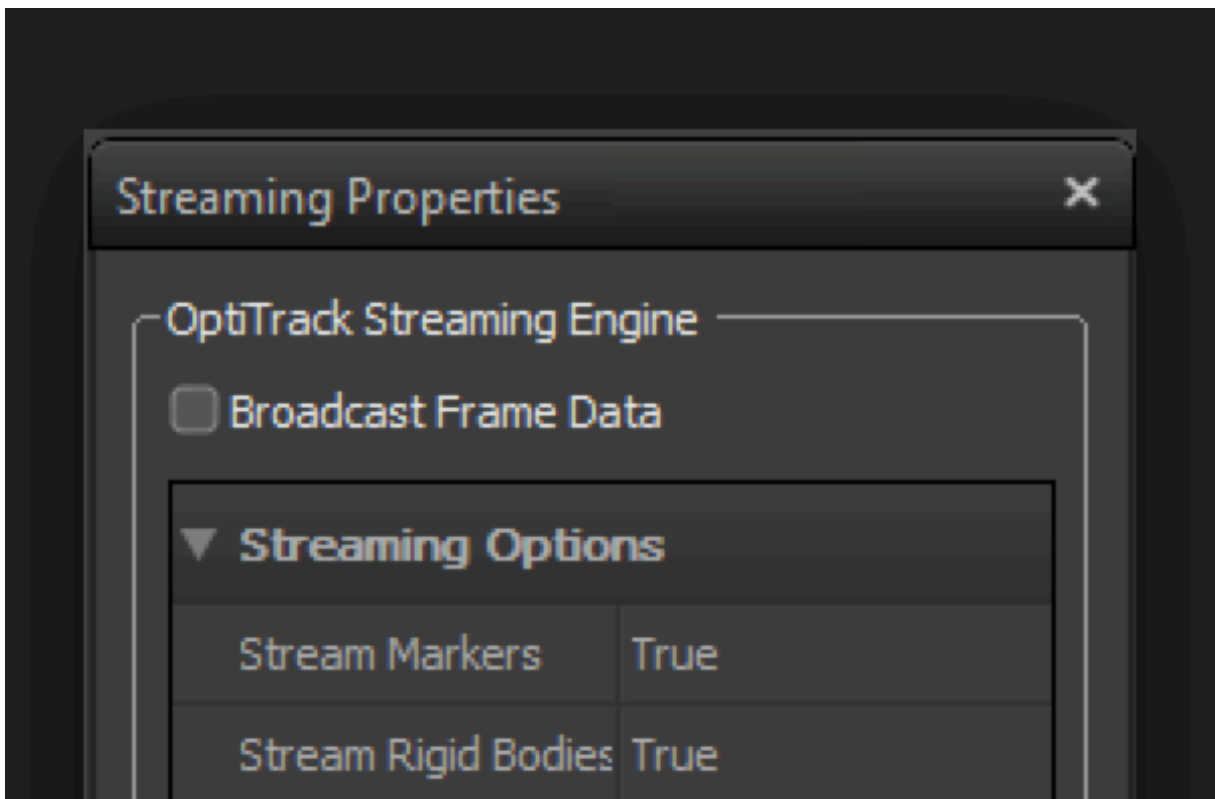
- Select "*create from selected markers*"
- Click on the *Rigid Body Properties* (triangle constellation icon in top left of interface)



-Rename Rigid Body to desired name



-Click on *Data Streaming Pane* (list with small arrow icon in top left of interface)



▼ **Skeleton Streaming Options**

Stream Skeletons	True
Local Rigid Bodies	False
Skeleton As Rigid B	False
Scale	1

▼ **Network Options**

Type	Multicast
Command Port	1510
Data Port	1511

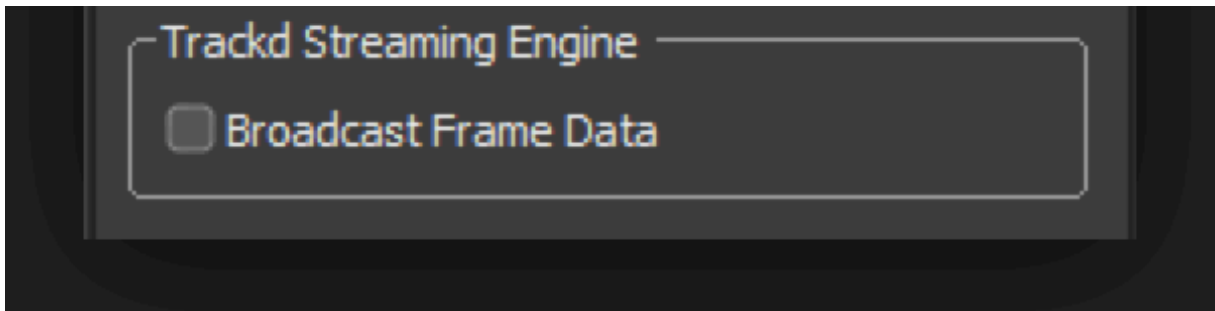
▼ **Network Interface Selection**

Local Interface	Preferred
Multicast Interface	239.255.42.99

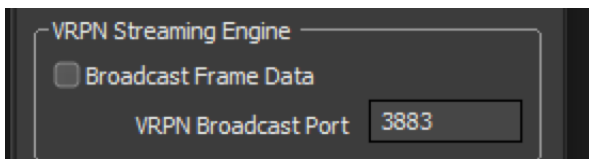
VRPN Streaming Engine

☐ Broadcast Frame Data

VRPN Broadcast Port



-Select box of the VRPN Streaming Engine with port number 3883



#### **Wireless:**

- Make sure you are connected to the Translab wireless on the device you wish to receive the data. Any other wireless network will not work.

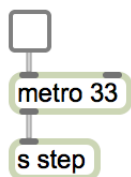
#### **MaxPatch:**

- Open the *TransLAB\_optitracker.maxpat* patch

- Rename the *vrpn.tracker* objects's name to the same name as in *Rigid Body Properties* \*\*\*(case sensitive)

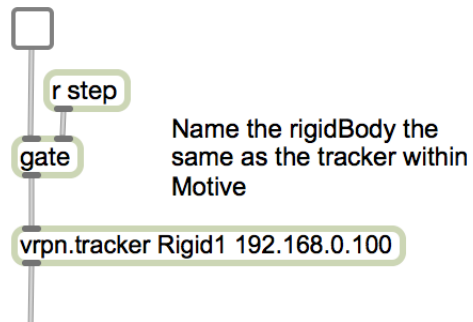
- Toggle the "*Metro*" **on**

OnOff

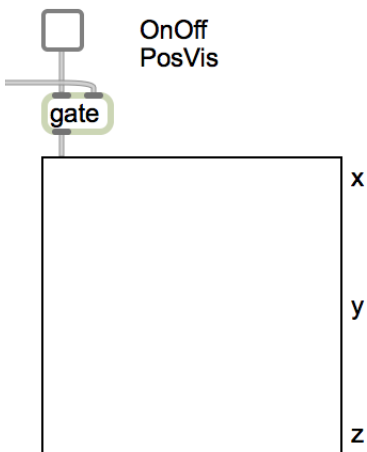


- Toggle the "*gate*" to the "*vrpn.tracker*" patch

## OpenClose Gate

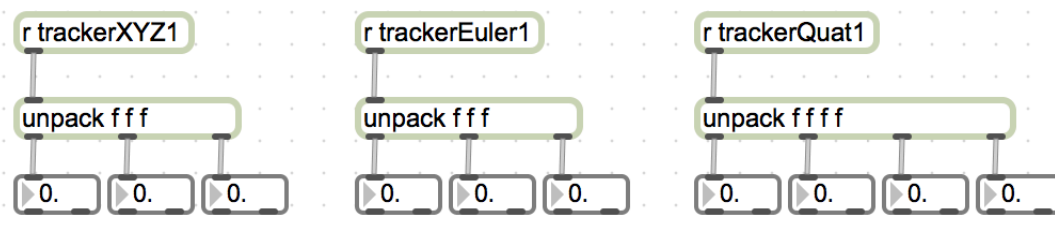


- Toggle the graph for each data stream that you would like to see (*XYZ, Quat, Euler*)



- There is "send" objects for each data stream for you to place into your patch, Use this to send the data to other patchers.

"r trackerXYZ1" - "r trackerQuat1" - "r trackerEuler1"



## \*Notes:

- Make sure that you are on the "TranLAB" wireless and that your rigid body is named *identically* in the patch as in the Motive software in order to receive the streamed data.

- If you wish to add additional trackers repeat all the steps and be sure to rename the trackers with a different name (l-hand // r-hand // tracker1 \\ tracker2... etc). Then copy and rename the "vrpn.tracker" object and the parts you wish to include. Finally, rename the send objects... (for example: Tracker #1 = "*s trackerXYZ1*" & "*r trackerXYZ1*" // Tracker #2 = "*s trackerXYZ2*" & "*r trackerXYZ2*")

- If the Tracking computer is off or needs to be restarted remember to unplug the 3 camera USB cables from the back of the tracking computer, then start the computer. Once the computer has booted plug the 3 USB camera cables back in to the back of the Tracking machine.

- Remember to shut everything down (except for the computer) once finished.

**\*Important:**

**Please make sure to keep the door locked when not using the lab. As I understand the door to Xenakis was left open yesterday and that is something we also need to be aware of.**

Excited to see how you all use it, remember what we talked about and the examples of different ways that this system can and has been used in the past.

Have fun!

fM