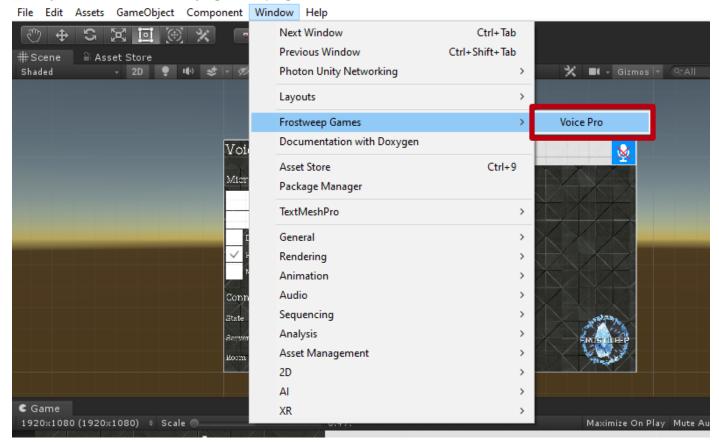
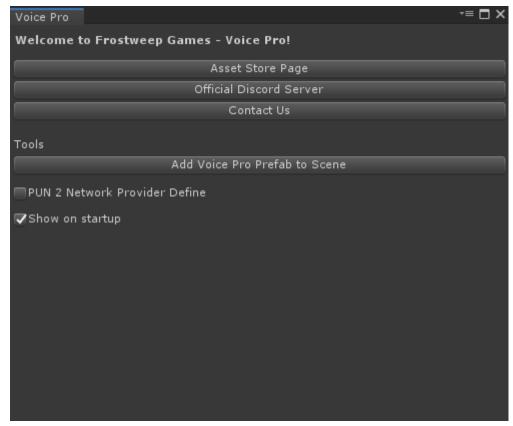
## Voice Pro

## How to use

First of all open Voice Pro Welcome window if it closed:

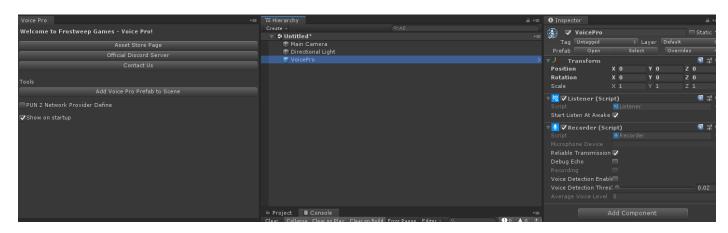
Unity 2019.1.2f1 - VCP\_DemoUl.unity - fgvoicechatpro-git - WebGL < DX11>





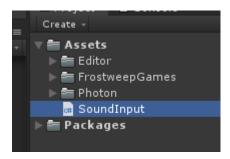
Frostweep Games, 2021

Create a new scene and click on Add Voice Pro Prefab to Scene button, it will create a new VoicePro object in scene.



Now you ready to implement simple functionality for sound input.

Create a new script with name SoundInput:



Then open it in scripts editor:

Now we have to declare two variables for recorder and listener:

**Recorder** class need for recording sound from microphone. **Listener** for receiving list of available speakers (Look at VCP\_Demo how it could be used).

Now need to write two function for start record and stop it. Lets name them accordingly.

In StartRecord function we have to call record function from Recorder. And in StopRecord call stop record function from Recorder.

Now we should add a new variable named as isRecording with Boolean type to understand do we record now or not:

```
## O CREMINT UNITY | CCEMPORTO

### Example of Computer of Comput
```

Also we need to add logic for network registration. Lets do it:

```
© Сообщение Unity | Ссылок: 0

void Start()

{

NetworkRouter.Instance.Register(id, "Speaker" + id, Enumerators.NetworkType.PUN2);

О Сообщение Unity | Ссылок: 0
```

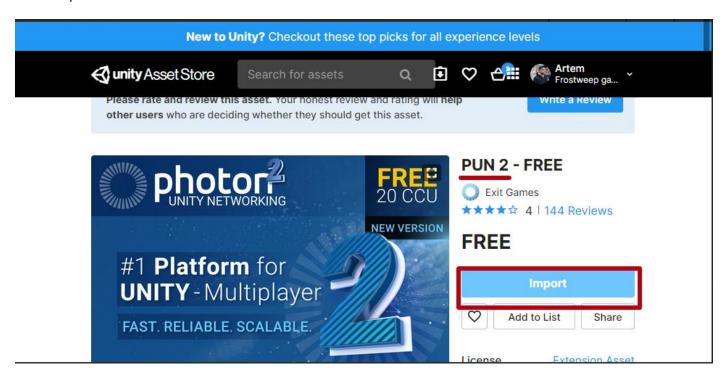
NetworkRouter.Instance.Register function registers network solution by **NetworkType** (we use PUN2), user **Id** and user **Name**.

Lets add a logic that will start and stop record dependently from pressing of a button with use of isRecording variable:

```
oublic class SoundInput : MonoBehaviour
   public Recorder recorder;
   public Listener listener;
   public bool isRecording;
   void Start()
       int id = Random.Range(0, 100);
       NetworkRouter.Instance.Register(id, "Speaker" + id, Enumerators.NetworkType.PUN2);
       if(Input.GetKeyDown(KeyCode.R) && !isRecording)
           StartRecord();
           isRecording = true;
       else if (Input.GetKeyUp(KeyCode.R) && isRecording)
           StopRecord();
           isRecording = false;
   public void StartRecord()
       recorder.StartRecord();
   public void StopRecord()
       recorder.StopRecord();
```

As it's a network solution you have to register networking. Currently our solution provides api for usage of PUN 2 network (**not** PUN Voice).

Lets it import it from asset store:

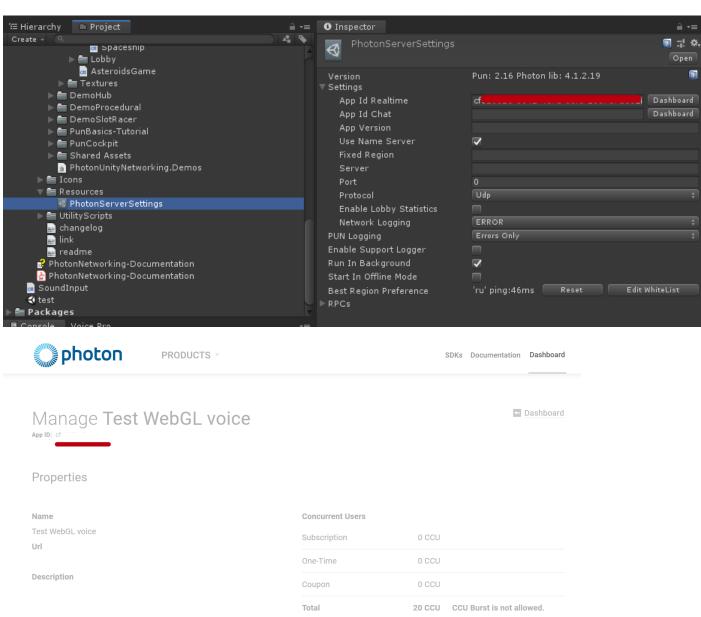


When imported you have to open Voice Pro Welcome window (described at begin of document) and check PUN2 Networking checkbox:



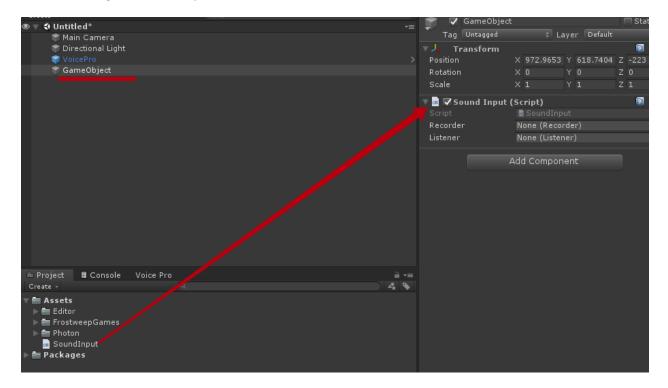
It will add special code define to list of Defines in project settings.

Don't forget to setup PhotonServerSettings. (You have to crete Photon account and register an app)

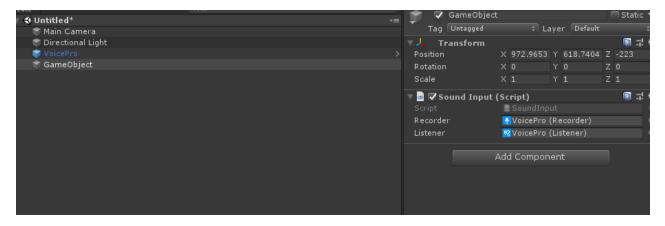


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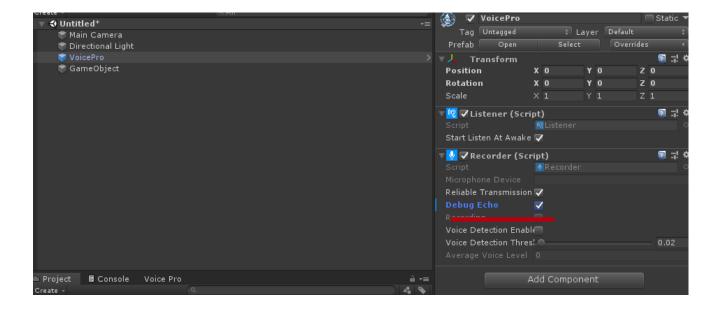
Last things that we have to do its create an empty object on created scene and attach SoundInput script we created on it(don't forget to save script before).



Now we should set our variables. Lets drag & drop VoicePro object from scene to inspector on both fields:



To make local test you could enable DebugEcho on Recorder component. Lets check DebugEcho checkbox:

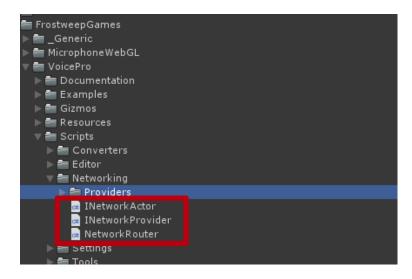


Now save scene in project folder and play scene. During pressing on R button, - it will record and transmit data.

## **Advanced**

As we implemented only PUN network solution you also could implement own.

We made few scripts that handles most of functionality for easy integration different networks.



How to use them you could look at PUNNetworkProvider and NetworkRouter scripts:



For example this is the list of function PUNNetworkProvider implements from interface:

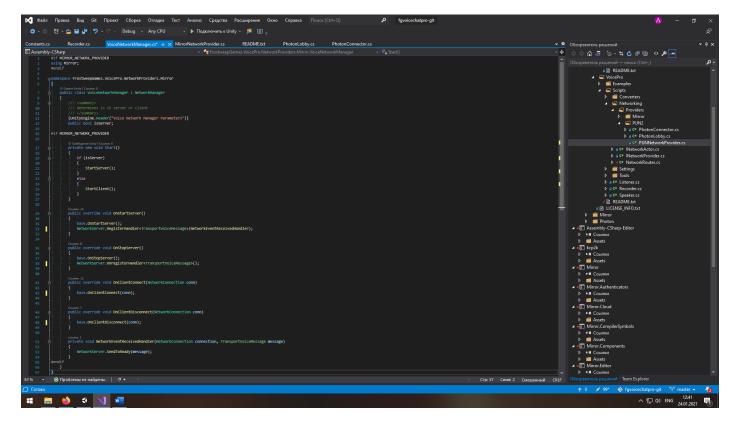
Also there implemented PUNNetworkActor that uses for understanding of actors in network:

In NetworkRouter you have to implement registration of your network solution:

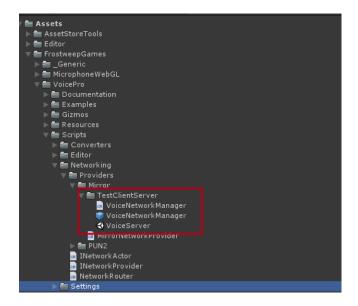
All connections to network written in other scripts such as lobby and connector.

How to setup Mirror Networking

For test purposes you could use our basic implementation of Mirror Server. We made VoiceNetworkManager which handles connection to server for clients and server starting functionality.



You can find this class and demo scene in:

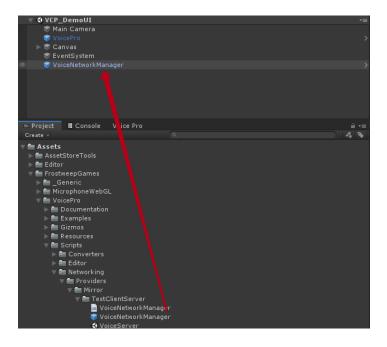


VoiceServer scene already includes prefab which contains VoiceNetworkManager configured for server

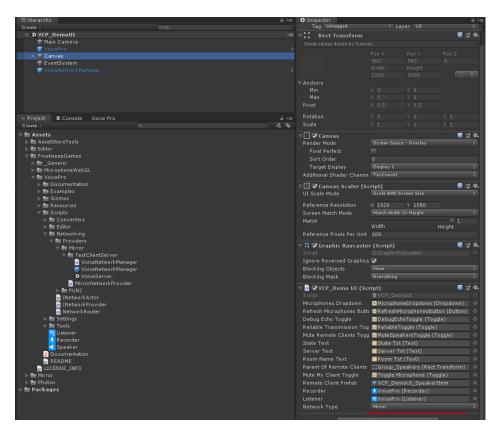
To start server build only VoiceServer scene and run it.

To make demo scene of Voice Pro workable with Mirror, you have to configure few things:

First of all you need top open demo scene and place configured prefab on the scene:



Then you need to select networking in Example script:



Now start the scene and enjoy!

API Reference available at: <a href="https://unitydemos.frostweepgames.com/assetstore/voiceprodemo/api/">https://unitydemos.frostweepgames.com/assetstore/voiceprodemo/api/</a>

WebGL demo: https://unitydemos.frostweepgames.com/assetstore/voiceprodemo/

Please read **README** file!