Kinect_Amx Project Deployment Manual

- The deployment process consists of 3 steps: installing the necessary components; preparing the "*.axs*" file, and loading it to the Amx system; and choosing IP address you want to be connected to and copying the .exe file.

1. Installing the necessary components

- Download and Install the Kinect SDK by clicking this link; Latest Kinect SDK

- This project has voice features, where you will be hearing certain voice feedbacks depending on which command you execute. For this to happen, you need to install the "*MSSpeech_TTS_en-US_ZiraPro*.msi" executable that is inside the additional components folder.

- To edit the "*.axs"* file, you will need to use *NetLinx Studio,* if you do not already have it installed, you can easily do that by executing the *"NetLinxStudioSetup_4_3_1519.exe"* in the "*Additional_ components"* folder.

2. Preparing the .axs file

- For the amx system be able to communicate with the Kinect, we need to add two pieces of code that make it possible.
- Open Netlinx studio.
- Open the "*Amx_Sample (WSU SAC ClassRm 041).axs*" file inside the "*additional_components*" folder.
- Open the "*.axs*" file of the room you are going to be deploying this project in.

2.1 Adding 1st part (virtual device)

- Copy line 79 from the "*Amx_Sample (WSU SAC ClassRm 041).axs*" file and paste it in the corresponding place in the new .axs file. This place should be located among the first 100 lines of code, within the section **DEFINE_DEVICE,** under the subsection "// Virtual Devices ", and before the next Section starts, preceded by a list of devices. You will place your copied line last in this list. And it should look like this:

```
// Relays
dvRelay                 = 5001:8:0

// IR
dvDvd                   .9:0                    // PANASONIC DMR-EZ37 DVD/VCR COMBO

// Virtual device
vdvCodecTP              = 33001:1:0             // VIRTUAL TOUCH PANEL Port Polycom
vdvTP                   = 33001:2:0
vdvDVDTP                = 33001:3:0             // VIRTUAL TOUCH PANEL DVD Port
vdvVolTP                = 33001:4:0             // VIRTUAL TOUCH PANEL Volume Control Port Port
vdvDSP                  = 33001:5:0             // Virtual device for Audio DSP control tracking
vdvCLActions            = 33012:1:0
vdvCodecTPRemote        = 33021:1:98
vdvTPRemote             = 33022:1:98
vdvDVDTPRemote          = 33023:1:98
vdvVolTPRemote          = 33024:1:98

vdvKinect               = 33025:1:0         // virtual device to receive kinect inputs

DEFINE_COMBINE
(vdvCodecTP,dvCodecTP,vdvCodecTPRemote)
(vdvTP,dvTP,vdvTPRemote)
```

After this

Before next Section (next section could have a different name).

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2.2 Adding 2nd part

- In the "*Amx_Sample (WSU SAC ClassRm 041) .axs",* copy lines 832 - 970. You MUST include the beginning characters "(…" when you copy it and place it under DATA_EVENT section on the new file. You can easily find this section on *Netlinx Studio* by clicking *edit>go to section>DATA_EVENT*, you can paste right under it.

- Click *save* to save the file in which you just pasted the texts. Compile as Nextlinx and load it to the Amx system.

3. Copying .exe and handling IP

- Copy the .exe file, included in the additional components folder, to the PC where this project will be running. Open it, type your IP address, and click *save*.

  - **NOTE 1:** the program will use this IP address until you type a new one. Even after closing and opening the program. If you wish to use a new IP Address, simply press the reset button to clear the text window, type your new IP address and click save again.

  - **NOTE 2:** It is very important you type the IP Address only. No characters before or after.

  ➔ The project is now ready.