WiRES-X Automation

Category: Automation,Projects,WiRES-X
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Yaesu does not provide a mechanism that allows the WiRES-X software to be controlled by another program, i.e., having another program switch to a certain Room when a net starts.

Windows does, however, permit another program to send events to a program. Each window, menu item, and dialog in a Windows program has a unique identifier. It is possible to use these identifiers to send “message” to the WiRES-X software.

The WiRES-X Automation Project’s purpose is to bring together people who are interested in developing this technology and sharing their results.

To get things going, here are two mechanisms for automating WiRES-X:

1. AutoIT: http://www.autoitscript.com
2. Python – an excellent programming language found at python.org

Dave, N9TOW, provided the following information:

Packages I have installed on my WiresX system.
C:\Users\WiresX>pip list
comtypes (1.1.3)
pip (9.0.1)
pypiwin32 (220)
pywinauto (0.6.3)
setuptools (28.8.0)
six (1.10.0)
https://github.com/pywinauto/pywinauto

To install

pip install -U pywinauto

Script that executes changing channels on WiresX app

```
import time
from pywinauto import Application
  app  =  Application().connect(path="C:\Program  Files (x86)\YAESUMUSEN\WIRES-X\wires-X.exe")
app.WiresX.menu_select("Connect(C)->Connect To(T)")
time.sleep(1.5)
app.InputID.Edit.set_edit_text("21493")
time.sleep(.5)
app.InputID.OK.click()
time.sleep(4)
dialogs = app.windows()
##app.Dialog.CloseButton.click()
```

Python Program

Bill, W9LBR, developed a Python program that runs on the WiRES-X computer. The software has been updated as of 12-Feb-2024. See more here.

This is from his description:

WXscheduler.pyw is a Python 3 program that automates certain aspects of
Wires-X Room/Node connections according to a userrdefined schedule.
To that end WXscheduler.pyw must be run on the same Windows PC that hosts the Wires-X application controlling either an HRI-200 or
a USB connected radio that supports PDN operation.

Schedulable operations:
– Connect
– Disconnect
– SetUnlimitedTOT
– SetTimeoutTOT
– Restart Wires-X App

Manual operation: Button that causes a Force Disconnect

Bonus operation: Displays Last Heard information that the Wires-X app
updates once a minute. Converting Lat/Lon into Grid Square if available.

A zip file containing instructions and the Python program is available at WXScheduler.

Update History

2 June 2023 v1.3 updates: – Last Heard now displays FT5-D, FTM-200, and FTM-500 correctly – Desktop\Wires-X_Last_Heard.html now generated to be viewed with PC browser

12 Feb 2022 updates: – Corrected grid square rendering of GPS coordinates as displayed in the Last Heard frame – version (v1.2) now displayed in main window title

5 Feb 2022 minor updates: – Fixed Last Heard display of recently manufactured FT70-D radios – WXscheduler.txt is now in DOS format, making it easier to read with Notepad 2022 version of WXscheduler.pyw – A scheduled event now performs multiple actions – Added File->Settings->Call settings actions – Fixed issue when Wires-X App is minimized – Fixed issue when Wires-X Settings window left open

MNWis Available on Hotspots

Category: Fusion,Hotspots,Network
January 27, 2019
MNWis has been available via hotspots since 31 July, 2016

Yaesu Published Webinars

Category: Fusion,Presentations,Yaesu
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Links to Yaesu webinars on YouTube

Mobile WiRES-X Nodes

Category: Fusion,Hotspots,WiRES-X
January 27, 2019
FT2D Can Now Be Used As Mobile Node