

WiRES-X Automation

Update: A corrected version of WXScheduler has been uploaded (15-Mar-2021)

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)
```

```
pywin32 (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. 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 userdefined 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](#). (Corrected 15-Mar-2021)