

WXScheduLer

Category: Automation,Projects,WiRES-X

February 13, 2024

Update: WXScheduLer 2.7.5 is available. The 2.7.5 installer is here.

WXScheduLer is a program that allows WiRES-X nodes to automatically switch to a Room or Node at a predetermined date and time. It's written in Python, but we now have a Windows installer which does not require the installation of Python.

The old 2.6.1 installer is available here. The Github repository is here.

If you experience problems, please use the Fusion Technical Net to report them (preferred), via Github issues, or email.

Update 14 Feb 2024: Users that have OneDrive on their computer but have disabled it report problems running the program. The program looks for the OneDrive folder. If it exists, it installs the configuration file there. If it doesn't exist, it uses the local directory on the C: drive.

More information:

WXScheduLer was written by Bill, W9LBR. It has been packaged as an .exe with a Windows installer by Chris K9EQ. In addition, the following changes have been made.

– 2023-01-10 2.5.1 Removed radioID error messages from the log (there were too many of them and they didn't add value)

Added an icon for the program

– 2023-02-12 2.6.1a Clicking the 'x' button on the scheduler menu no longer causes the program to crash

The installer creates a WXScheduLer directory under the WIRESDX

directory where the Yaesu software lives. It installs the following files:

- Readme.txt, this text
- WXScheduler.pyw, the Python source file
- WXScheduler.ico, the icon file
- WXScheduler.exe, the executable
- Uninstal.exe, the program to uninstall WXScheduler

The uninstaller removes these files and the directory. It does not remove the .json configuration file one directory above.

The packaged version displays the GUI without a shell console. If you want the console as well, rename the file to *.py instead of *.pyw. You'll then need to open up a shell (command prompt) and launch with a 32-bit Python interpreter as in: "C:\python32 WXScheduler.py".

The source code is available at <https://github.com/K9EQ/WXScheduler>.

Also see HamOperator.com for more information about WXScheduler.

Drop in on the Fusion Technical Net to discuss the program. The net is held Monday at 7:30 PM US Central time in Room or YSF 21493.

Bill has done a fantastic job with this program. I hope that my minor additions make it easier for a wider audience to benefit from it.

Note that the WXScheduler is either stored in the \OneDrive\Documents\WIRESXA folder, if it exists, or in the user's Documents\WIRESXA folder. So if you can't find it in your WIRESXA folder, you may have OneDrive so look there.

Bill's original text file, WXScheduler.txt, follows:

Wxscheduler.pyw is a Python 3 program that automates certain aspects of Wires-X Room/Node connections according to a user defined schedule.

Schedulable operations:

- Settings->Call settings
- Unlimited TOT
- TOT(TimeOut Timer)
- Settings->General settings
- Round QSO Room connection
- Accept calls while in Round QSO Rooms
- Back to Round QSO after disconnect
- Return to Room
- Room ID
- Connect <Node/Room>
- Disconnect
- Restart Wires-X App

Immediate operation:

- Force Disconnect

Scheduler Settings Example (Automatically reconnects after network glitch):

- MnWis Fusion Net every Monday 7:30pm US/Central time
- First segment (net usually lasts at least 60 minutes)
Occurs: [every]
Week Day: [Mon]
Hour: [19]
Minute: [28]
Event's Timezone: [US/Central]
Description: [start MnWis Fusion Net]
 RoundQSO Room connection
 Accept calls while in Round QSO Rooms
 Back to Round QSO after disconnect

Return to Room

Room ID: [MNWIS]

Unlimited TOT

TOT(TimeOut Timer): [60]

Command: [Disconnect]

Argument: []

– Second segment (net running over 60 minutes – switch to LocFav-ROOM on timeout)

Occurs: [every]

Week Day: [Mon]

Hour: [20]

Minute: [30]

Event's Timezone: [US/Central]

Description: [after MnWis Fusion Net]

RoundQSO Room connection

Accept calls while in Round QSO Rooms

Back to Round QSO after disconnect

Return to Room

Room ID: [LocFav-ROOM]

Unlimited TOT

TOT(TimeOut Timer): [10]

Command: [none]

Argument: []

NOTE #1: WXscheduler.pyw MUST BE RUN ON THE SAME WINDOWS PC and under the SAME USER ID as the Wires-X PC application.

NOTE #2: When the Windows screen is LOCKED, this prevents WXscheduler's scheduled keyboard/mouse automation from occurring. Suggest: [Settings->System->Power&Sleep->Screen turn off after NEVER]

WXscheduler v2.5 updates:

- Schedule settings now require a Timezone parameter.
- Compensation for Daylight Savings Time is now automatic on a per timezone basis
- Load Python Timezone package using Windows Command Prompt:
pip install pytz
- WXscheduler.cfg is now more portable and user editable
- User's HOME path is now resolved at run time and no longer saved in WXscheduler.cfg
- JSON data fields are now saved in pretty mode
- When WXscheduler-v2.5 detects an existing WXscheduler.cfg without timezone data fields, the user will be prompted to set their local timezone value and all existing events will be updated with the local timezone value.
- WXscheduler's main window:
 - Scheduled events are displayed in chronological order
 - When the main window is moved, its new position is remembered. And all sub-windows will be opened in the same position. This replaces PySimpleGUI's default of centering window within the display.
 - [Add Event] and [Delete Event] buttons have been replaced with the [Scheduler] button that when clicked provides a new window with buttons: [New] [Delete] [Update] [Cancel]

WXscheduler v2.4 updates:

- Additional exception debug information
- Changed main window title from "Wires-X Scheduler" to "WXscheduler (v...)"

WXscheduler v2.3 update:

At startup determines whether Microsoft OneDrive is active or not and locates the Documents/WIRESXA and user/Desktop folders accordingly.

WXscheduler v2.2 updates:

At startup verifies:

- Wires-X.exe is accessible at its standard location
- /Users/????/Documents/WIRESXA folder is accessible (where WXscheduler.cfg is stored)

WXscheduler v2.1 updates:

Better displays exception information

Shows expected WIRESXA pathname to last heard data file

WXscheduler v2.0 update adds:

Display Last Heard information that the Wires-X application updates once a minute.

If available, Lat/Lon displayed as 6-character Grid Square.

Wxscheduler v1.3 updates:

Last Heard information now correctly displays the newer Yaesu models

(i.e. FT5-D, FTM-200, and FTM-500)

Desktop\Wires-X_Last_Heard.html contains hypertext encoded callsigns

that perform a QRZ.com callsign lookup.

Prerequisites (versions below are what was tested on):

Windows PC (win7 and higher)

Wires-x App (Ver-1.550)

Python 3 (32-bit) because Wires-X App uses the win32 UI

site-packages: PySimpleGUI, pywinauto, pytz

Installing Python:

Recommend going to <https://www.python.org/downloads/windows/> to find a Python release that matches Windows on your PC.

After installing Python, use a CMD window to load site-packages:

- pip install pywinauto PySimpleGui pytz

Installing WXscheduler.pyw:

Copy WXscheduler.pyw to your Desktop

Double click on the WXscheduler.pyw icon to launch the program.

Hint: To see any startup or run time issues:

- Open a CMD window
- Copy WXscheduler.pyw WXscheduler.py
- WXscheduler.py

Enjoy,

Bill

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Crimp Vs. Solder

Category: Projects

February 13, 2024

What's best, crimping or soldering. Should you use crimping? How is a good crimp done.

Below are references that address these questions.

Wikipedia Entry

Crimping vs Soldering Advantages and Disadvantages

Good and Bad RF Crimp Connections

ARRL Instructions for Crimping RF Connectors

How to Make a Quality Crimp

More on Making a Quality Crimp (technical)

Molex Crimping Manual (technical)

TE Systems Crimp Chart

Notes on crimping:

It is always best to have the right tools. Make sure you use the right connector for the cable and the right crimp die for the connector. With the right tools, RF connectors can be crimped very quickly and are very reliable. One nice advantage, is that it is easy to reuse the connector. The center pin is generally soldered (which is easy to unsolder) and the shield is crimped with a short metal "tube". Some companies sell bags of replacement "tubes" so the connectors can be reused. Follow the connector's instructions EXACTLY and you'll have a solid connection that will last forever.

If you are making outdoor connections, I recommend using N connectors as they are hermetically sealed. (PL-259s are not) For power connections, I recommend using the same connectors that are used to connect solar panels together. They're much cheaper than Anderson Power Poles and they form a hermetic seal. For signal connectors, go to your hardware store and look in the irrigation section. They have special twist-on connectors that are meant to be underground or sit in the rain. They're pretty cheap if you buy a big bag.

Check back again in about a week and I'll have more links and references.

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 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.

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

DV4mini Fusion Monitor Program

Category: Hotspots,Projects

February 13, 2024

This program uses a DV4mini to monitor over-the-air Fusion signals and display the meta data (does not display voice, pictures, messages, etc.)

This version of the program will output a record when a station keys up and then another record when the station unkeys. I've done this so that the user doesn't get overwhelmed with all of the meta data that is produced.

You'll need to review the Yaesu Digital Communication Standards document to understand what the different fields mean.

Computer Requirements: Windows 7 or later

Program Installation

1. Download the program from this link: [DV4mini YSFMonitor](#).
2. Create a directory on your Windows PC and unzip this folder into that directory.
3. Download and install the Microsoft Visual Studio 2017 redistributable for your machine

Running the Program

1. Open a command box (type cmd) and change to the directory in which you installed the software.
2. Check the program: Type VSFRX.exe -v. It should respond with the version number.
3. User Device Manager to determine the com port of your DV4mini.

4. Enter frequency and com port as follows: YSFRX.exe com7
444525000

Note that the frequency must be entered as 9 digits.

5. A log file will be created in the same directory as the program.

Output Example from the 30-Apr-2018 Net

M: 2018-05-01 01:01:30.338 DV4mini version: V01.77

M: 2018-05-01 01:01:30.338 YSFRX-20180430 K9EQ starting

M: 2018-05-01 01:01:33.646

M: 2018-05-01 01:01:33.646 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 6 SQ: 0 SC: 0

M: 2018-05-01 01:01:33.646 Terminator, CSD1

M: 2018-05-01 01:01:33.646 0000: 2A 2A 2A 2A 2A 48 35 35 37 56
57 38 4F 4A 2D 20 20 20 20 20 *****H557VW80J- *

M: 2018-05-01 01:01:33.646 Terminator, CSD2

M: 2018-05-01 01:01:33.646 0000: 4B 39 45 51 20 20 20 20 20 20
57 38 4F 4A 20 20 20 20 20 20 *K9EQ W80J *

M: 2018-05-01 01:01:36.748

M: 2018-05-01 01:01:36.748 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0

M: 2018-05-01 01:01:36.748 Header, CSD1

M: 2018-05-01 01:01:36.748 0000: 2A 2A 2A 2A 2A 46 30 58 49 4B
4B 44 38 47 52 4E 20 20 20 20 *****F0XIKKD8GRN *

M: 2018-05-01 01:01:36.748 Header, CSD2

M: 2018-05-01 01:01:36.748 0000: 4B 39 45 51 20 20 20 20 20 20
4B 44 38 46 4A 48 20 20 20 20 *K9EQ KD8FJH *

M: 2018-05-01 01:01:43.742

M: 2018-05-01 01:01:43.742 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0

M: 2018-05-01 01:01:43.743 Terminator, CSD1

M: 2018-05-01 01:01:43.744 0000: 2A 2A 2A 2A 2A 46 30 58 49 4B
4B 44 38 47 52 4E 20 20 20 20 *****F0XIKKD8GRN *

M: 2018-05-01 01:01:43.745 Terminator, CSD2

M: 2018-05-01 01:01:43.745 0000: 4B 39 45 51 20 20 20 20 20 20
4B 44 38 46 4A 48 20 20 20 20 *K9EQ KD8FJH *

M: 2018-05-01 01:01:48.921

M: 2018-05-01 01:01:48.921 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,

FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:01:48.921 Header, CSD1
M: 2018-05-01 01:01:48.921 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
57 36 5A 44 52 20 20 20 20 20 *****W6ZDR *
M: 2018-05-01 01:01:48.921 Header, CSD2
M: 2018-05-01 01:01:48.921 0000: 4B 39 45 51 20 20 20 20 20 20
44 55 31 5A 44 52 20 20 20 20 *K9EQ DU1ZDR *
M: 2018-05-01 01:01:59.513
M: 2018-05-01 01:01:59.513 FICH: FI: HC, DT: VD1, BN: 0, BT: 1,
FN: 2, FT: 6 SQ: 0 SC: 0
M: 2018-05-01 01:02:00.317
M: 2018-05-01 01:02:00.317 FICH: FI: TC, DT: VD2, BN: 3, BT: 1,
FN: 3, FT: 3 SQ: 0 SC: 27
M: 2018-05-01 01:02:01.717
M: 2018-05-01 01:02:01.717 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:01.717 Terminator, CSD1
M: 2018-05-01 01:02:01.717 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
57 36 5A 44 52 20 20 20 20 20 *****W6ZDR *
M: 2018-05-01 01:02:01.717 Terminator, CSD2
M: 2018-05-01 01:02:01.717 0000: 4B 39 45 51 20 20 20 20 20 20
44 55 31 5A 44 52 20 20 20 20 *K9EQ DU1ZDR *
M: 2018-05-01 01:02:02.483
M: 2018-05-01 01:02:02.483 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:04.203
M: 2018-05-01 01:02:04.203 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:04.203 Terminator, CSD1
M: 2018-05-01 01:02:04.203 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
4B 44 38 41 47 4F 4A 4F 48 4E *****KD8AGOJOHN*
M: 2018-05-01 01:02:04.203 Terminator, CSD2
M: 2018-05-01 01:02:04.203 0000: 4B 39 45 51 20 20 20 20 20 20
41 44 30 4D 49 20 20 20 20 20 *K9EQ AD0MI *
M: 2018-05-01 01:02:09.834
M: 2018-05-01 01:02:09.834 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 6 SQ: 0 SC: 0
M: 2018-05-01 01:02:09.834 Header, CSD1
M: 2018-05-01 01:02:09.834 0000: 32 31 34 39 33 47 30 32 7A 42

41 42 38 52 4C 2D 54 4F 4D 20 *21493G02zBAB8RL-TOM *
M: 2018-05-01 01:02:09.834 Header, CSD2
M: 2018-05-01 01:02:09.834 0000: 4B 39 45 51 20 20 20 20 20 20
41 42 38 52 4C 20 20 20 20 20 *K9EQ AB8RL *
M: 2018-05-01 01:02:19.424
M: 2018-05-01 01:02:19.424 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 6 SQ: 0 SC: 0
M: 2018-05-01 01:02:19.424 Terminator, CSD1
M: 2018-05-01 01:02:19.424 0000: 32 31 34 39 33 47 30 32 7A 42
41 42 38 52 4C 2D 54 4F 4D 20 *21493G02zBAB8RL-TOM *
M: 2018-05-01 01:02:19.424 Terminator, CSD2
M: 2018-05-01 01:02:19.424 0000: 4B 39 45 51 20 20 20 20 20 20
41 42 38 52 4C 20 20 20 20 20 *K9EQ AB8RL *
M: 2018-05-01 01:02:23.581
M: 2018-05-01 01:02:23.581 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 6 SQ: 0 SC: 0
M: 2018-05-01 01:02:23.583 Header, CSD1
M: 2018-05-01 01:02:23.584 0000: 32 31 34 39 33 45 30 50 71 61
4B 46 38 50 4D 2F 41 4C 41 4E *21493E0PqaKF8PM/ALAN*
M: 2018-05-01 01:02:23.584 Header, CSD2
M: 2018-05-01 01:02:23.584 0000: 4B 39 45 51 20 20 20 20 20 20
4B 46 38 50 4D 20 20 20 20 20 *K9EQ KF8PM *
M: 2018-05-01 01:02:37.296
M: 2018-05-01 01:02:37.296 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:37.296 Terminator, CSD1
M: 2018-05-01 01:02:37.298 0000: 32 31 34 39 33 45 30 50 71 61
4B 46 38 50 4D 2F 41 4C 41 4E *21493E0PqaKF8PM/ALAN*
M: 2018-05-01 01:02:37.298 Terminator, CSD2
M: 2018-05-01 01:02:37.299 0000: 4B 39 45 51 20 20 20 20 20 20
4B 46 38 50 4D 20 20 20 20 20 *K9EQ KF8PM *
M: 2018-05-01 01:02:51.164
M: 2018-05-01 01:02:51.165 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:51.166 Header, CSD1
M: 2018-05-01 01:02:51.167 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
57 35 4C 4E 41 2D 4B 45 56 4E *****W5LNA-KEVN*
M: 2018-05-01 01:02:51.168 Header, CSD2
M: 2018-05-01 01:02:51.169 0000: 4B 39 45 51 20 20 20 20 20 20

57 30 4D 44 54 20 20 20 20 20 *K9EQ W0MDT *
M: 2018-05-01 01:02:57.665
M: 2018-05-01 01:02:57.665 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:02:57.667 Terminator, CSD1
M: 2018-05-01 01:02:57.668 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
57 35 4C 4E 41 2D 4B 45 56 4E *****W5LNA-KEVN*
M: 2018-05-01 01:02:57.668 Terminator, CSD2
M: 2018-05-01 01:02:57.669 0000: 4B 39 45 51 20 20 20 20 20 20
57 30 4D 44 54 20 20 20 20 20 *K9EQ W0MDT *
M: 2018-05-01 01:03:00.908
M: 2018-05-01 01:03:00.908 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:03:00.908 Header, CSD1
M: 2018-05-01 01:03:00.908 0000: 2A 2A 2A 2A 2A 45 35 67 47 79
4B 31 4B 43 2D 50 4F 52 54 32 *****E5gGyK1KC-PORT2*
M: 2018-05-01 01:03:00.908 Header, CSD2
M: 2018-05-01 01:03:00.908 0000: 4B 39 45 51 20 20 20 20 20 20
4B 31 4B 43 20 20 20 20 20 20 *K9EQ K1KC *
M: 2018-05-01 01:03:07.414
M: 2018-05-01 01:03:07.414 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:03:07.414 Terminator, CSD1
M: 2018-05-01 01:03:07.414 0000: 2A 2A 2A 2A 2A 45 35 67 47 79
4B 31 4B 43 2D 50 4F 52 54 32 *****E5gGyK1KC-PORT2*
M: 2018-05-01 01:03:07.414 Terminator, CSD2
M: 2018-05-01 01:03:07.414 0000: 4B 39 45 51 20 20 20 20 20 20
4B 31 4B 43 20 20 20 20 20 20 *K9EQ K1KC *
M: 2018-05-01 01:03:29.710
M: 2018-05-01 01:03:29.710 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:03:29.710 Header, CSD1
M: 2018-05-01 01:03:29.710 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
4B 30 4F 52 4B 2D 43 48 55 4B *****K0ORK-CHUK*
M: 2018-05-01 01:03:29.710 Header, CSD2
M: 2018-05-01 01:03:29.710 0000: 4B 39 45 51 20 20 20 20 20 20
57 30 4D 44 54 20 20 20 20 20 *K9EQ W0MDT *
M: 2018-05-01 01:03:37.764 TIMEOUT
M: 2018-05-01 01:04:24.355 TIMEOUT

M: 2018-05-01 01:04:44.738 TIMEOUT
M: 2018-05-01 01:04:53.392
M: 2018-05-01 01:04:53.392 FICH: FI: TC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:04:53.394 Terminator, CSD1
M: 2018-05-01 01:04:53.394 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
4B 30 4F 52 4B 2D 43 48 55 4B *****K00RK-CHUK*
M: 2018-05-01 01:04:53.395 Terminator, CSD2
M: 2018-05-01 01:04:53.395 0000: 4B 39 45 51 20 20 20 20 20 20
57 30 4D 44 54 20 20 20 20 20 *K9EQ W0MDT *
M: 2018-05-01 01:04:55.917
M: 2018-05-01 01:04:55.917 FICH: FI: HC, DT: VD2, BN: 0, BT: 0,
FN: 0, FT: 7 SQ: 0 SC: 0
M: 2018-05-01 01:04:55.917 Header, CSD1
M: 2018-05-01 01:04:55.917 0000: 2A 2A 2A 2A 2A 2A 2A 2A 2A 2A
4B 47 34 53 42 47 2D 44 45 4E *****KG4SBG-DEN*
M: 2018-05-01 01:04:55.917 Header, CSD2
M: 2018-05-01 01:04:55.917 0000: 4B 39 45 51 20 20 20 20 20 20
57 38 4F 4A 20 20 20 20 20 20 *K9EQ W80J *