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| Usage examples for: wptest.py | Vitalie Ghelbert - Moldova |



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| Gilat | NGNMS – AUTOMATED TESTING |

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# Instalation

* from [\\gna2\pituach\Svl\Automation&Simulator](file:///\\gna2\pituach\Svl\Automation&Simulator) copy WP folder to disk C:
* enter C:\WP \setup folder
* Follow install instructions from INSTALL.TXT file.

For 32 bit Windows, install all programs from 32/ folder in order specified below:

1. python-2.7.5.msi

2. setuptools-0.7.4.win32-py2.7.exe

3. pycurl-7.19.0.win32-py2.7.exe

4. pyserial-2.7-pre1.win32-py2.7.exe

5. install\_xlutils.bat

For 64 bit Windows, install all programs from 64/ folder in order specified below:

1. python-2.7.5.amd64.msi

2. setuptools-0.7.4.win-amd64-py2.7.exe

3. pycurl-7.19.0.win-amd64-py2.7.exe

4. pyserial-2.7-pre1.win-amd64-py2.7.exe

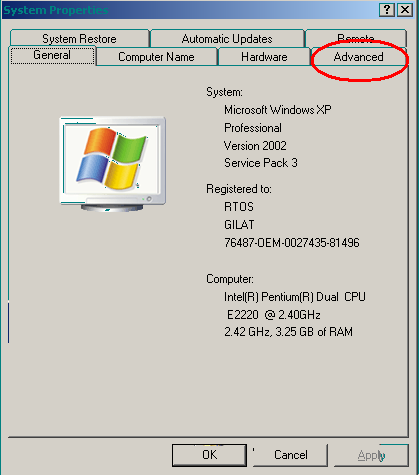
5. install\_xlutils.bat

* Add python path to PATH variable: C:\Python27; C:\Python27\Scripts;

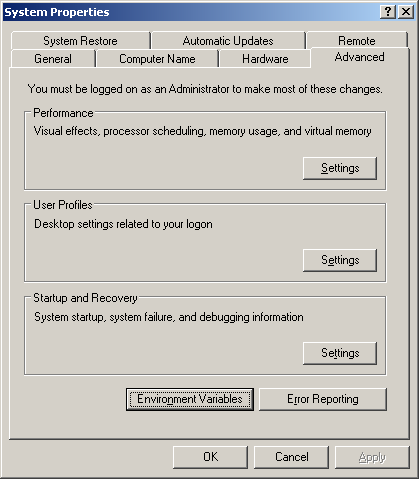
1. Click Start button, then right click on My Computer and click Properties (see picture below).



1. Then click on Advanced Tab.



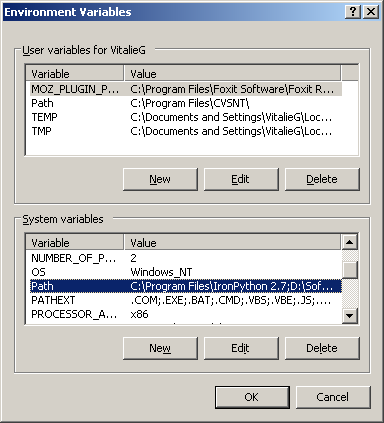
1. Click on Environment Variables.

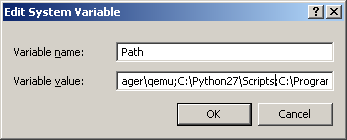


1. From there, find Path variable and press Edit button:

Copy and Paste C:\Python27; C:\Python27\Scripts; and press OK.

Note: don’t miss (;) at the end!





# Example

## Real working example flow:

1. open C:\WP\ngnms\data\demo.xls
2. open command prompt to C:\WP\ngnms
3. show DLF configuration file:

**wptest.py --dlf show**

1. configuring DLF file C:\WP\ngnms\configs\dlf.ini
2. setting and setup DLF with:

**wptest.py --dlf setup**

**wptest.py --dlf set**

NOTE: set “serial = 0” in C:\WP\ngnms\configs\dlf.ini if needed DLF connection over TCP.

1. show VSAT enabled configurations with:

**wptest.py --show vsat**

1. show HUB enabled configurations with:

**wptest.py --show hub**

1. show enabled TESTCASES with:

**wptest.py --show test**

1. correct VSAT and/or HUB configurations into C:\WP\ngnms\data\demo.xls
2. check VSAT with:

**wptest.py --check vsat**

1. check HUB with:

**wptest.py --check hub**

1. If VSAT, HUB, DLF are ok, we could run one TESTCASE with:

**wptest.py --run --name 2**

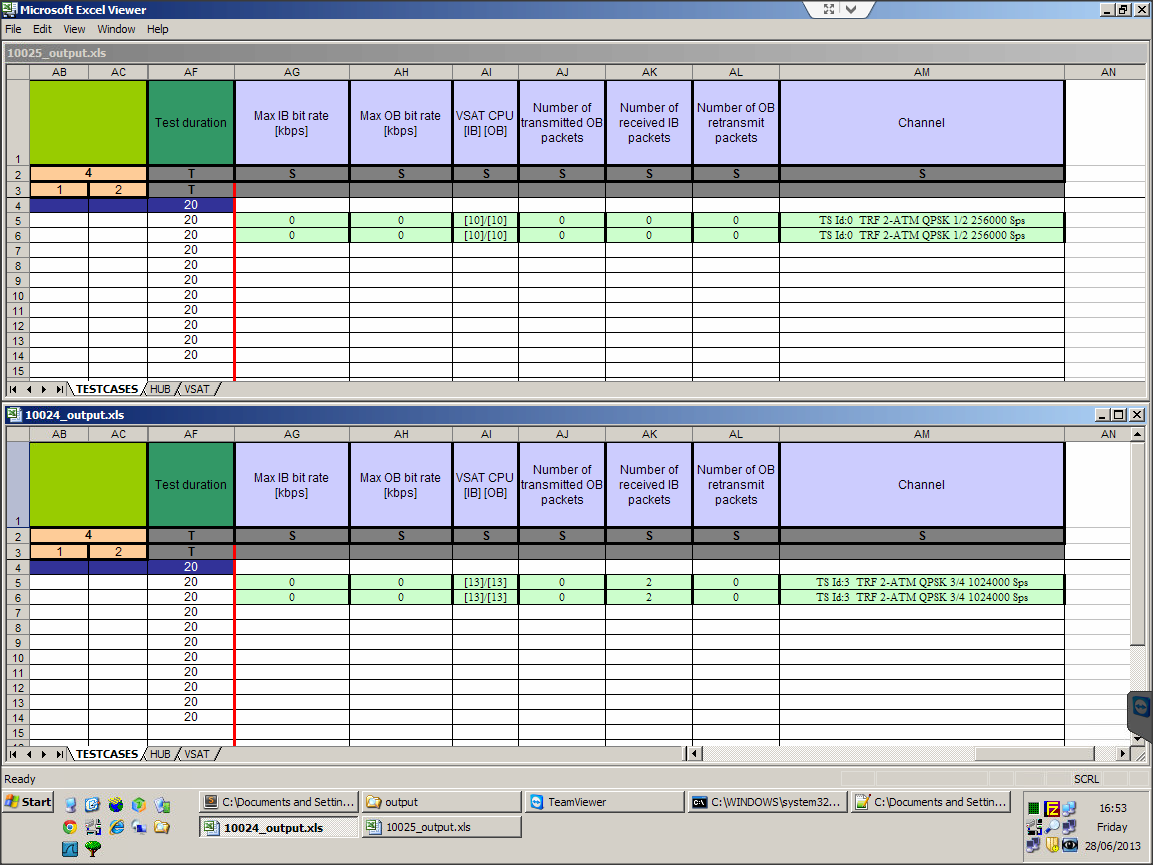
Note: this will run TESTCASE number 2. To run all TESTCASES:

**wptest.py --run**

1. When program finished to run, you could check for result in:

C:\WP\ngnms\data\output

See picture from below.



# Usage examples

## Show help

C:\WP\ngnms>**wptest.py --help**

Usage: wptest.py [options]

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Options:

--version show program's version number and exit

-h, --help show this help message and exit

-c DEVICE, --check=DEVICE

check [hub, vsat]'s status.

-n NAME, --name=NAME vsat name to check.

-s INFO, --show=INFO show [all, hub, vsat, test]'s info.

-d, --disabled show disabled rows only.

-i INFILE, --in-file=INFILE

testcases input file [default: data/demo.xls]

-r, --run run one or [default:enabled] test cases

--dlf=DLF dlf state [show, check, set, setup]

wptest.py - read and run test cases from excel file.

## Show active vsat’s

* wptest.py --show vsat
* wptest.py --show vsat --disabled

C:\WP\ngnms>**wptest.py --show vsat**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

ENABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT : ENABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

------------------------------------------------------------

VSAT : V1 : ENABLED

------------------------------------------------------------

Active = x

Name = V1

Console IP = 192.168.140.76

Console PORT = 1010

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

------------------------------------------------------------

C:\WP\ngnms>**wptest.py --show vsat --disabled**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

DISABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT : DISABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

------------------------------------------------------------

VSAT : V2 : DISABLED

------------------------------------------------------------

Active =

Name = V2

Console IP = 192.168.140.76

Console PORT = 1016

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

------------------------------------------------------------

------------------------------------------------------------

VSAT : V3 : DISABLED

------------------------------------------------------------

Active =

Name = V3

Console IP = 192.168.140.76

Console PORT = 101

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

------------------------------------------------------------

## Show one particular vsat

* wptest.py --show vsat --name V4

C:\WP\ngnms>**wptest.py --show vsat --name V4**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

ENABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT : ENABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT: V1

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

DISABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT : DISABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

VSAT: V2

VSAT: V3

------------------------------------------------------------

VSAT : V4 : DISABLED

------------------------------------------------------------

Active =

Name = V4

Console IP = 10.111.35.6

Console PORT = 1004

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

------------------------------------------------------------

VSAT: V5

VSAT: V9

VSAT: V10

## Show hub configuration

* wptest.py --show hub
* wptest.py --show hub --disabled

C:\WP\ngnms>**wptest.py --show hub**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

ENABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

HUB : ENABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

------------------------------------------------------------

HUB : NS\_3 : ENABLED

------------------------------------------------------------

Active = x

Name = NS\_3

Type = NS

URL = https://172.20.255.1

User = rnd

Password = 6DTR2ZHGS6MQQ

------------------------------------------------------------

C:\WP\ngnms>**wptest.py --show hub --disabled**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

DISABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

HUB : DISABLED

xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx

------------------------------------------------------------

HUB : NS\_3 : DISABLED

------------------------------------------------------------

Active =

Name = NS\_3

Type = NS

URL = https://ngnms-server/

User = admin

Password = manager

------------------------------------------------------------

## Checking vsat

* wptest.py --check vsat
* wptest.py --check vsat --name V2

C:\WP\ngnms>**wptest.py --check vsat**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

ENABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

------------------------------------------------------------

-- V1 : ENABLED --

------------------------------------------------------------

Active = x

Name = V1

Console IP = 192.168.140.76

Console PORT = 1010

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

step:\> Checking connection ...

status: -> SUCCESS!

step:\> Checking link status!

status: Total Backbone Links UP = 1

status: ->Link UP!

------------------------------------------------------------

C:\WP\ngnms>**wptest.py --check vsat --name V1**

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

ENABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

------------------------------------------------------------

-- V1 : ENABLED --

------------------------------------------------------------

Active = x

Name = V1

Console IP = 192.168.140.76

Console PORT = 1010

Connection timeout = 10

Number of tries = 3

Tries timeout = 10

step:\> Checking connection ...

status: -> SUCCESS!

step:\> Checking link status!

status: Total Backbone Links UP = 1

status: ->Link UP!

------------------------------------------------------------

============================================================

INFO: Excel file data/demo.xls!

============================================================

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

DISABLED

HHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHHH

VSAT : V2

VSAT : V3

VSAT : V4

VSAT : V5

VSAT : V9

VSAT : V10

## Checking hub

* wptest.py --check hub

C:\WP\ngnms>**wptest.py --check hub**

============================================================

INFO: Excel file data/demo.xls!

============================================================

step:\> Connecting to: https://ngnms-server

info:\> [user: admin] [password: manager]

status: 200 https://ngnms-server/navigation/statustree/network

step:\> Scanning ngnms network tree ...

------------------------------------------------------------

Teleport: main

Satellite: Satellite

RF Cluster: rfCluster 1

NS: controller

------------------------------------------------------------

info:\> Available network segments names on server:

controller = 579

## Show DLF configurations:

C:\WP\ngnms>**wptest.py --dlf show**

serial = 1

serial\_port = COM1

serial\_baudrate = 19200

tcp\_ip = 192.168.140.76

tcp\_port = 1001

**Note: change serial = 0 to connect over TCP to DLF device.**

[Action]

default = 0

constant = 1

trapeze = 0

sinus = 0

saw = 0

connectivity = 0

[DefaultsComp]

ib\_noise = 1

ob\_noise = 1

noise\_output = 0

sync = 1

mesh = 0

etc …

## Checking DLF connection:

C:\WP\ngnms>**wptest.py --dlf check**

status:\> Serial<id=0xc9c790, open=True>(port='COM1', baudrate=19200, bytesize=8, parity='N', stopbits=1, timeout=None, xonxoff=False, rtscts=False, dsrdtr=False)

status:\> checking serial port: COM1

status:\> port open: True

status:\> closing port: COM1

status:\> port open: False

## Setting DLF device:

C:\WP\ngnms>**wptest.py --dlf set**

status:\> setting DLF defaults.

status:\> sending data over serial: COM1

status:\> finished!

C:\WP\ngnms>**wptest.py --dlf setup**

status:\> setting DLF defaults.

status:\> sending data over serial: COM1

ib\_noise = 1 -> 90060D

ob\_noise = 1 -> 93060D

noise\_output = 0 -> 92000D

sync = 1 -> 91070D

mesh = 0 -> 8F000D95000D

status:\> finished!

## Run one particular test

* **wptest.py --run --name 1**

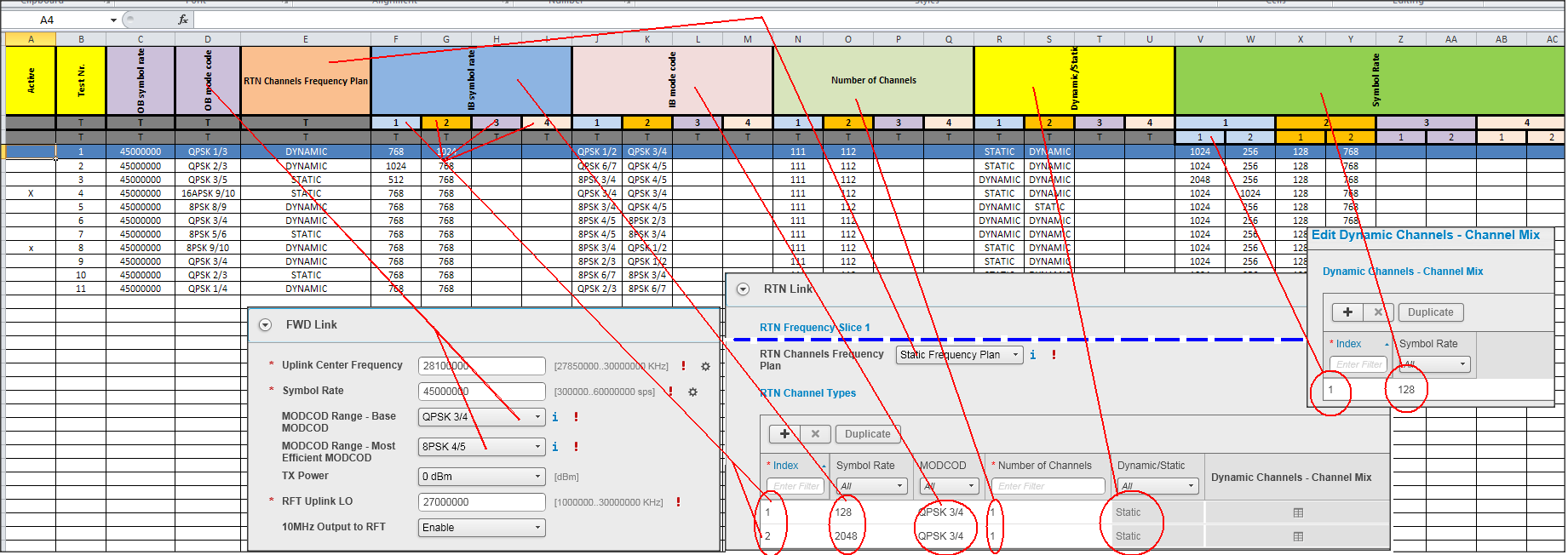
## Run all active test cases

* **wptest.py --run**

Note: to run all disabled tests use --disabled option.

* **wptest.py --run --disabled**

# Configuring TESTCASES



By default, you could use demo.xls file from data directory: C:\WP\ngnms\data\demo.xls

Hint: Make a copy before changing demo.xls file.

You can specify witch input file to use with -i option:

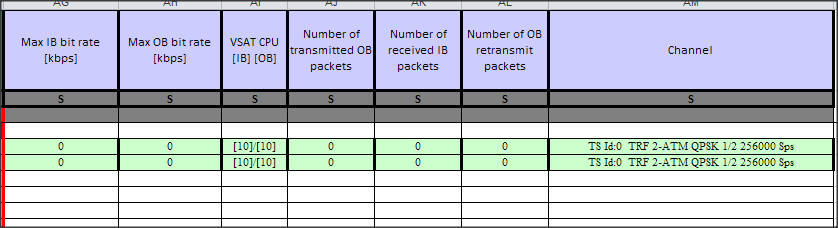
Example:

**wptest.py -i data/demo.xls --run --name 4**

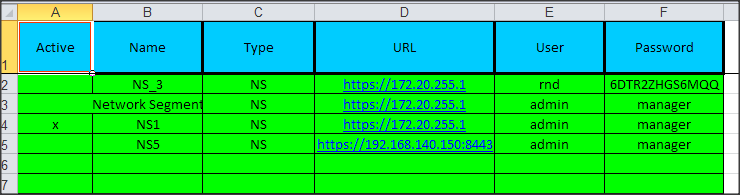
That will read test cases from [data/demo.xls] file, and store to [data/output/] directory.

NOTE: by default, [data/demo.xls] is used if no (-i) option in provided.

## Data from output.xls file after running test



## Configuring HUB.



Active: just one line should be active.

Name: fill here network segment name

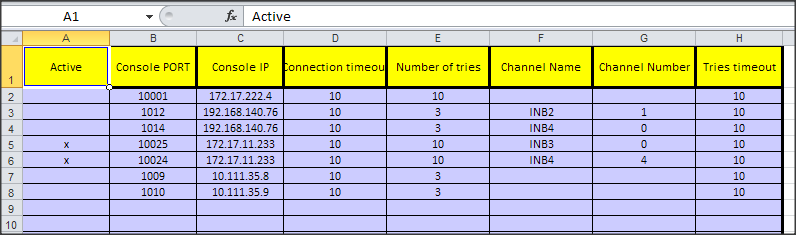
Type: optional

URL: ngnms link

User: ngnms user

Password: ngnms password

## Configuring VSAT.



Active: multiple lines could be active.

Console Port: telnet port connection

Console IP: telnet ip connection

Connection timeout: time until timeout

Channel Name: vsat connected to DLF channel.

Channel Number: TRF channel on which transmit vsat.

Number of tries: how many tries to check until link UP.

Tries timeout: time between each try if vsat has link DOWN.