

# WLC-ADD-GUEST

Manual for Deployment and Operation

refers to version 2021.041401

# Content

- Short Overview
- Program Features
- Program Requirements
- Program Installation
- Program Authorization
- API – How to call the Program
- API – How to Create a visitor's access
- API – How to Check a visitor's access
- Testing
- Author's note

# Short Overview

Program WLC-ADD-GUEST creates the temporary WiFi access for visitors. Temporary access expires within 24 hours since the moment it has been created.

From the technical perspective, the program WLC-ADD-GUEST is an interface between the application, used by reception office, and the wifi infrastructure.

# Program Features

- `wlc-add-guest.exe` or `wlc-add-guest.pyc` – compiled program
- `wlc-add-guest.py` – source code of program
- `wlc-add-guest.json` – configuration file (created automatically, do not edit)
- `wlc-add-guest-manual.pdf` – manual (this file)

Dependencies:

`python 2.7`

`plink.exe` (from PuTTY)

# Program Requirements

- all components should be deployed within the folder C:\WLC
- Actual version requires Python 2.x (tested with version 2.7.17)
- Actual version requires plink.exe (tested with version 0.73)
- Python can be installed anywhere on the host system
- Python does not need any additional modules
- .PYC extension should be included within environmental variable PATHEXT

# Program Installation

1. Download and install Python from  
<https://www.python.org/ftp/python/2.7.17/python-2.7.17.msi>
2. Download plink.exe (ssh utility)  
<https://the.earth.li/~sgtatham/putty/latest/w32/plink.exe>
3. Download program source code and manual  
<https://github.com/ondrej-duras/wlc-add-guest/raw/main/wlc-add-guest.py>  
<https://github.com/ondrej-duras/wlc-add-guest/raw/main/wlc-add-guest-manual.pdf>
4. Deploy plink.exe wlc-add-guest.py and wlc-add-guest-manual.pdf in C:\WLC folder
5. Modify wlc-add-guest.py (optional)
6. Compile wlc-add-guest.py into wlc-add-guest.pyc or wlc-add-guest.exe  
`python -m compileall wlc-add-guest.py`
7. Authorize program (next slide) `wlc-add-guest.pyc -a`
8. Delete wlc-add-guest.py (optional)

# Program Authorization

During the authorization process the program uses admin's credentials to create its own unique access credentials.

These unique credentials are not stored, but calculated from many particular environmental parameters, such as system variables and hardware parameters.

For the compilation and authorization of this program ask the operation team, responsible for the WiFi infrastructure.

Usually they should proceed steps 5-8. from previous slide.

Authorizator during the authorization takes responsibility for the program.

# API - How to call the program

```
def wlcCaller(parameters):  
    WLCTOOL = ""  
    if os.path.exists(r"c:\wlc\wlc-add-guest.exe"):  
        WLCTOOL=r"c:\wlc\wlc-add-guest.exe"  
    elif os.path.exists(r"c:\wlc\wlc-add-guest.pyc"):  
        WLCTOOL=r"c:\wlc\wlc-add-guest.pyc"  
    else:  
        print "Error !"; return  
    print WLCTOOL  
    stdin,stdout = os.popen4(WLCTOOL + " " + parameters)  
    stdin.close()  
    output = stdout.read()  
    stdout.close()  
    return output
```



# API – How to create visitor's access

```
error1 = wlcCaller(" -u Janko.Hrasko -p Hesielko")
if not error1:
    print "Create - PASS"
else:
    print "Create - FAIL Error message: %s" % (error1)
```

# API - How to check whether access created

```
error2 = wlcCaller("-1")
if "Janko.Hrasko" in error2:
    print "List      - PASS"
else:
    print "List      - FAIL Error message: %s" % (error2)
```

# Testing

create as many instances of authorized program as you need.

Let's say

`wlc-add-guest-test1.pyc`

which will create its configuration within the file

`wlc-add-guest-test1.json`

...etc

Try to authorize new instance

`wlc-add-guest-test1.pyc -a`

Try to create an visitor's access

`wlc-add-guest-test1.pyc -u Janko.Hrasko1 -p Hesielko1`

Try to check, whether you have been successful

`wlc-add-guest-test1.pyc -l | grep Janko.Hrasko1`

# Author's note

- It's minimal value product, developed at operation
- It's GPLv2 so feel free to use as an usual open-source
- refer to wlc-add-guest-manual.pdf for any changes

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see more at <https://github.com/ondrej-duras>