HighFinesse
The Standard of Accuracy

HighFinesse Tutorial

Extracting data from the Wavelength Meter WS6 Standalone

Make sure the proper version of Visual C++ Redistributable for Visual Studio
for your operating system is installed. You can download it here:

https://support.microsoft.com/en-us/help/2977003/the-latest-supported-visual-c-downloads

Then please run the vc_redist.x64.exe (vc_redist.x86.exe for 32 bit).

This tutorial shows you how to …

… extract data from the HighFinesse Wavelength Meter WS6 Standalone using the HighFinesse NetGUI and LongTerm application.
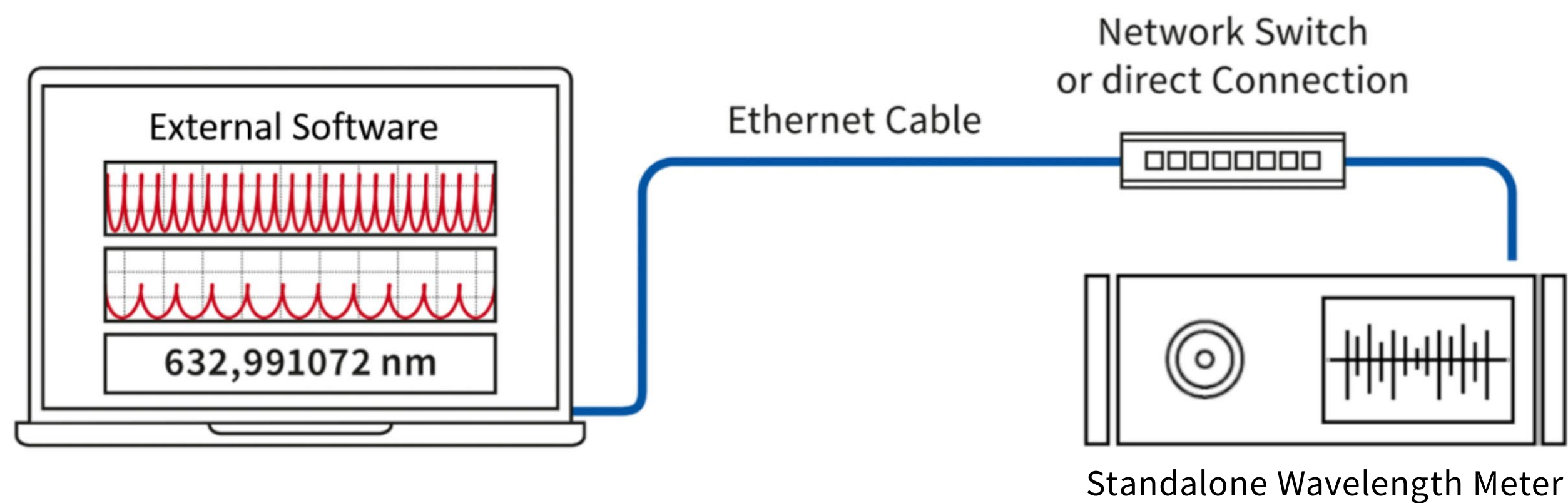
How to …

… use your own code to access a HighFinesse Wavelength Meter.

HighFinesse Tutorial

HighFinesse NetAccess

1

External Software

632,991072 nm

Ethernet Cable

Network Switch
or direct Connection

Standalone Wavelength Meter

Connect the **Wavelength Meter**
to the Network.

2

Connect the **USB stick** with the
HighFinesse Standalone Accessories
to your computer.

If you have lost the USB stick download
the files using the link below:

https://
www.highfinesse-downloads.com/
download/
6mcxfh5nw96w

3

HighFinesse Standalone Accessories
Type: RAR archive

Find the RAR archive
**HighFinesse
Standalone Accessories**
on the **USB stick.**

4

Add	
Convert	
Extract	
Extract all here (Ctrl+Sh	
Extract all here (smart n	
Extract all here (in new	
Text encoding	
More	>
Enter password / keyfile	
Navigation	>
Sort by	>
Select all (Ctrl+A)	
Select...	
Preview with...	>
Open in a new tab	
File manager	>
Web search	
Explore path	Alt+F7
Properties	Ctrl+Alt+F7

Extract all	Ctrl+L
Extract displayed object(s)	Ctrl+S
Extract selected object(s)	Ctrl+E

Extract the RAR archive
**HighFinesse
Standalone Accessories.**

5

Open …

HighFinesse Standalone Accessories
Type: Folder

Open the extracted folder
**HighFinesse
Standalone Accessories.**

6

Client_Linux
Client_macOS
Client_Windows
Example Longterm
Example Python
Example wlmData ini
include
NetGUI for generating the correct wlmData.ini
Network Discovery Server
wlmData Server
External Access Guide
Intoduction LongTerm
NetAccess_UserGuide
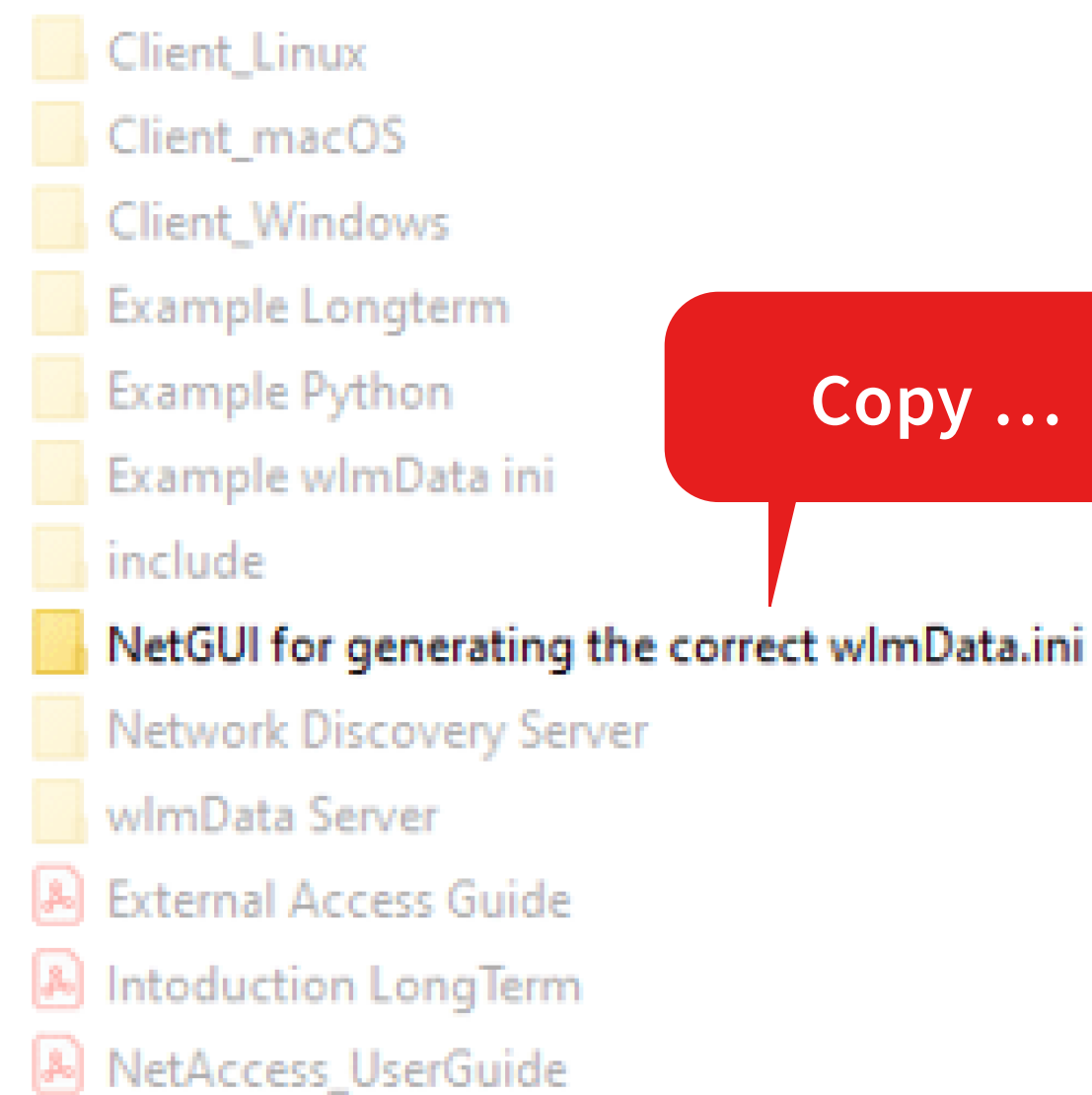
Copy ...

Copy the folder
NetGUI for generating the correct wlmData.ini to your computer
(for WS6 Standalone only).

7

Client_Linu
Client_mac
Client_Windows
Example Longterm
Example Python
Example wlmData ini
include
NetGUI for generating the correct wlmData.ini
Network Discovery Server
wlmData Server
External Access Guide
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NetAccess_UserGuide
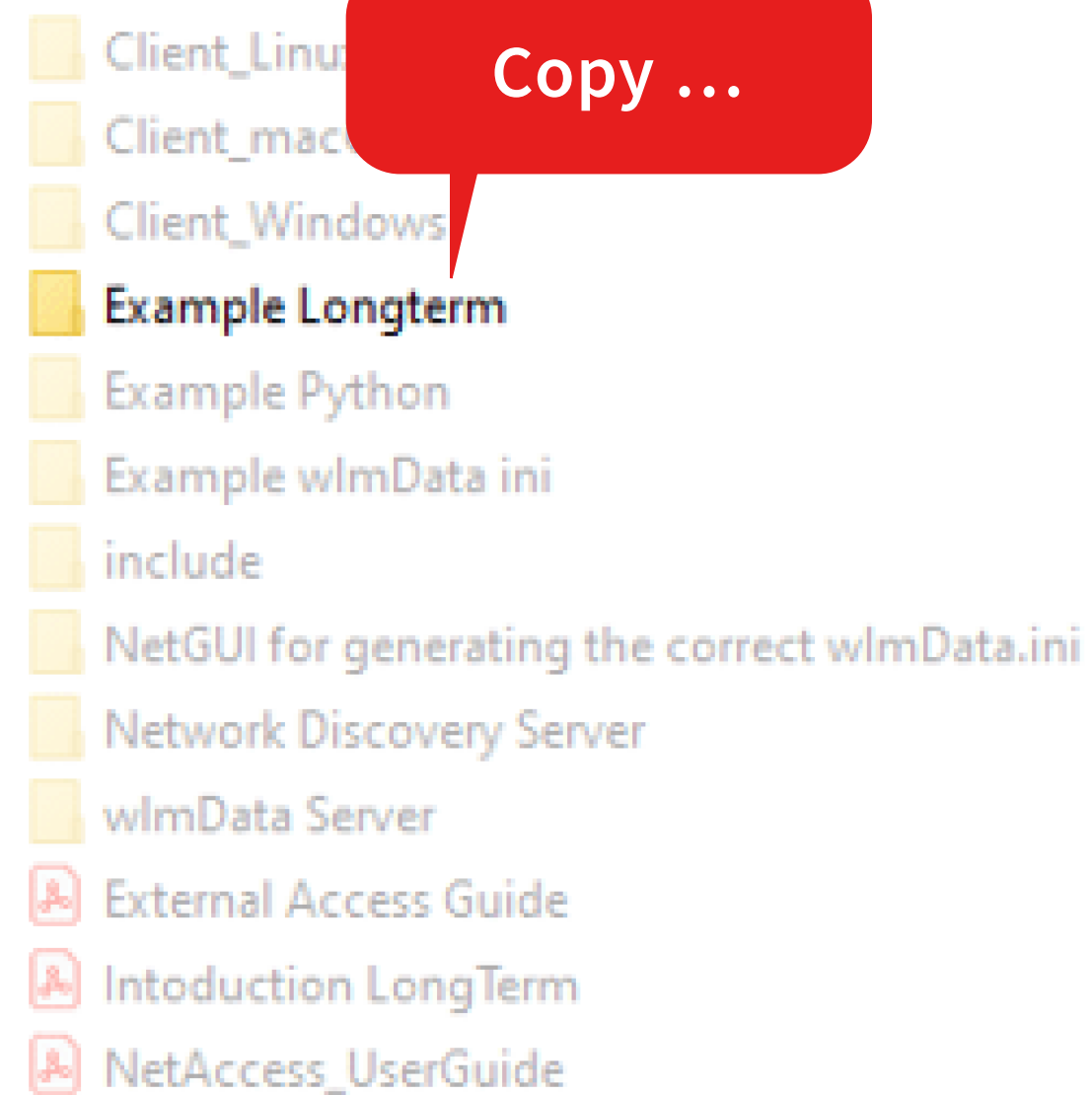
Copy ...

Copy the folder
Example Longterm
to your computer.

8

Open ...
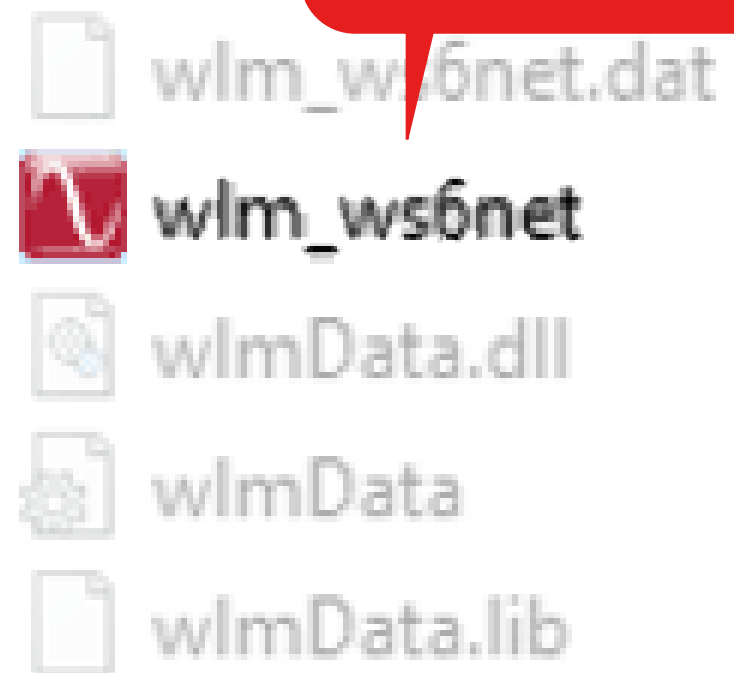
NetGUI for generating the correct wlmData.ini
Type: Folder
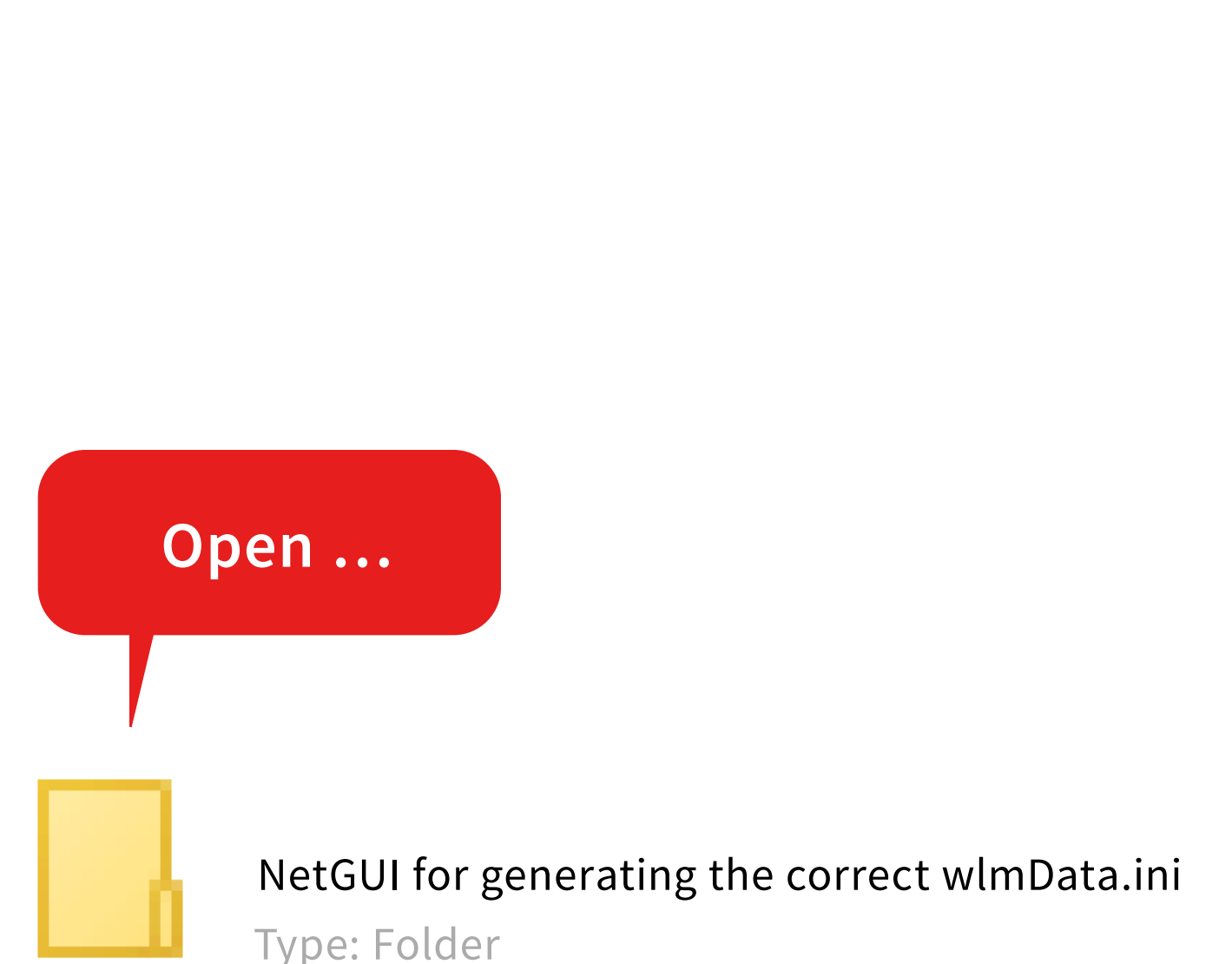
Open the folder **NetGUI for generating the correct wlmData.ini**
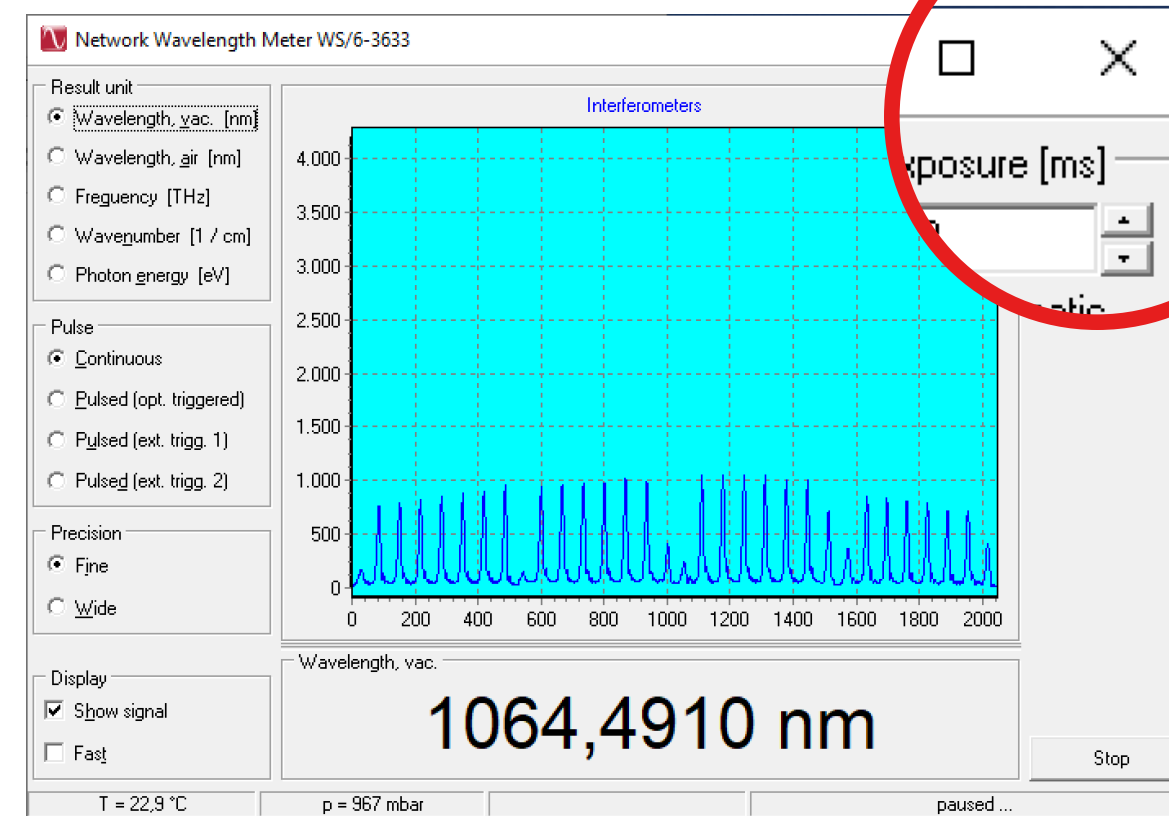(for WS6 Standalone only).

9

Start the **NetGUI** by opening **wlm_ws6net** to test the connection.

In order to use the program UPD has to be allowed in your network. The NetGui can be used to adjust the measurement settings and monitor the interferograms.
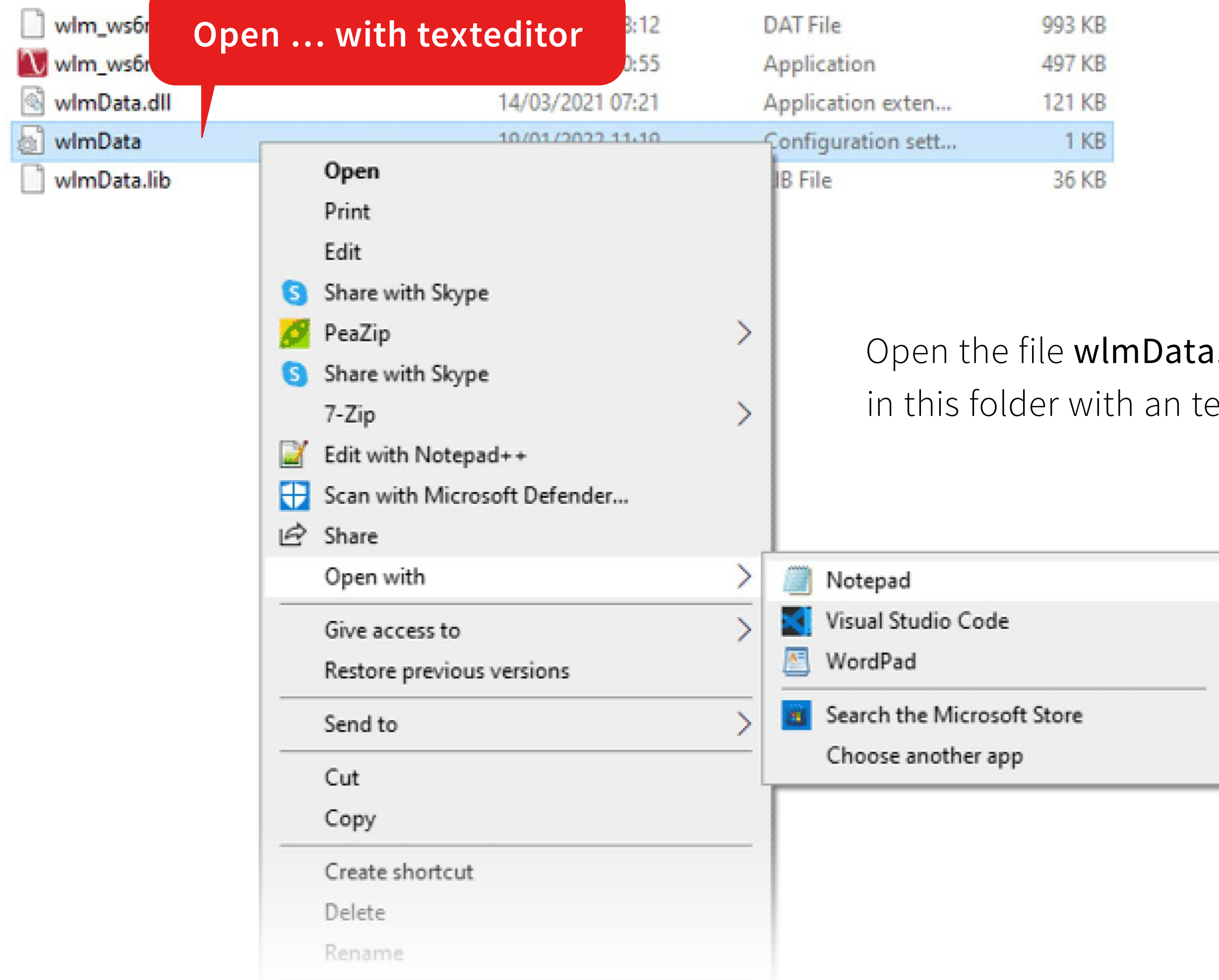
10

Close the **NetGUI.**

11

Result:

The **NetGUI** has automatically overwritten the file **wlmData.ini** located in the same folder.

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Open … with texteditor

wlm_ws6r	8:12	DAT File	993 KB
wlm_ws6r	0:55	Application	497 KB
wlmData.dll	14/03/2021 07:21	Application exten...	121 KB
wlmData	19/01/2022 11:19	Configuration sett...	1 KB
wlmData.lib		IB File	36 KB

Open
Print
Edit
Share with Skype
PeaZip   >
Share with Skype
7-Zip   >
Edit with Notepad++
Scan with Microsoft Defender...
Share
Open with   >   Notepad
                         Visual Studio Code
Give access to   >   WordPad
Restore previous versions
                         Search the Microsoft Store
Send to   >   Choose another app
Cut
Copy
Create shortcut
Delete
Rename

Open the file **wlmData.ini**
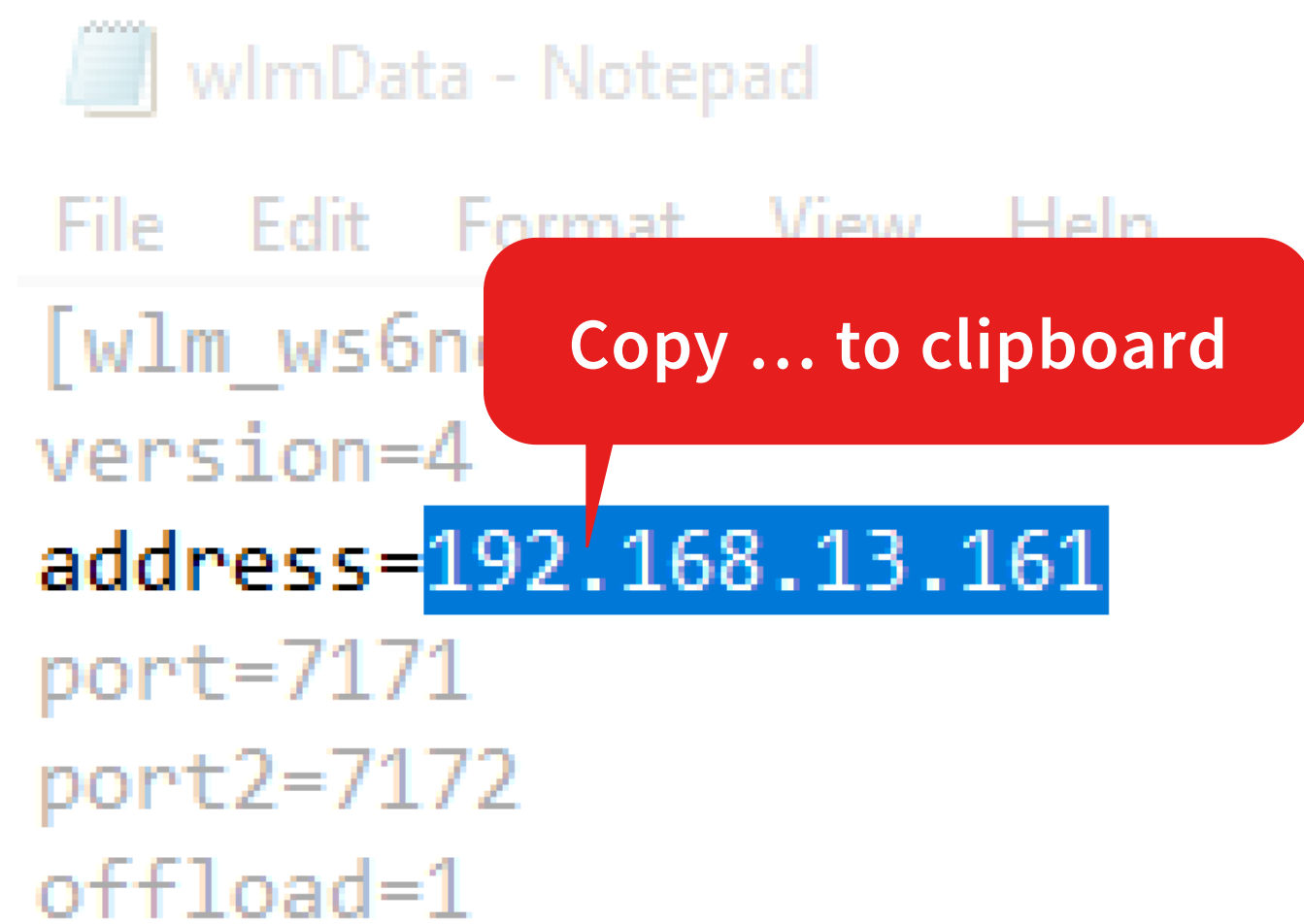in this folder with an texteditor.

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wlmData - Notepad

File   Edit   Format   View   Help

[wlm_ws6net.dat]
version=4
address=192.168.13.161
port=7171
port2=7172
offload=1

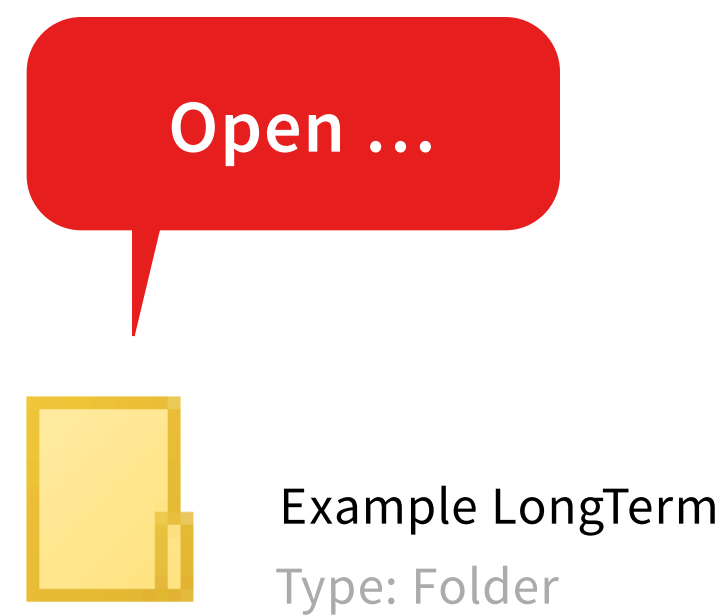The file shows you the IP address of the standalone instrument in your network.
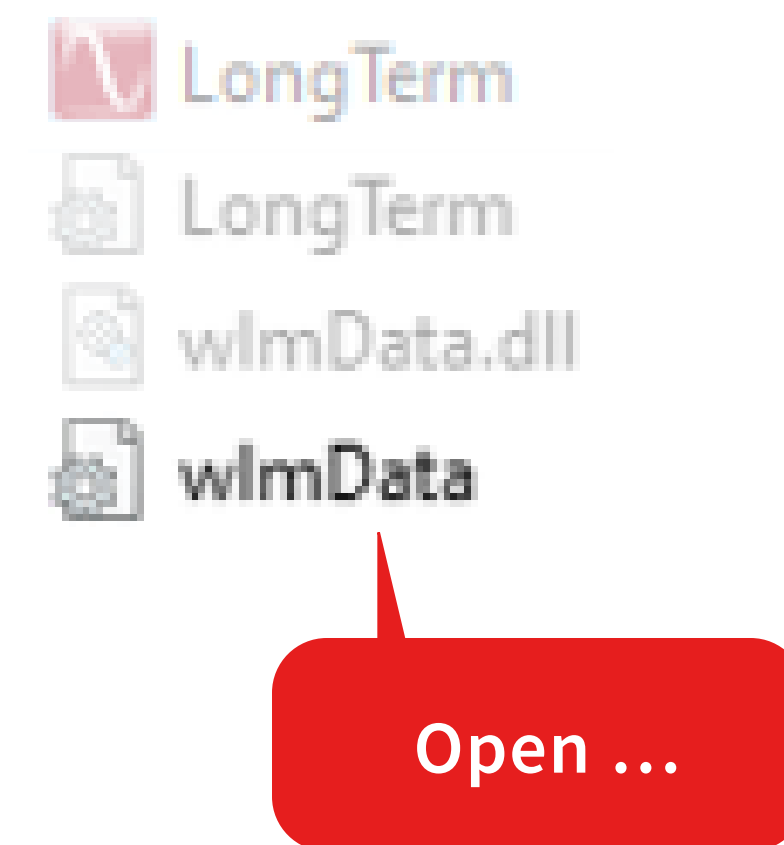
In this example it is 192.168.13.161

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wlmData - Notepad

File Edit Format View Help

[wlm_ws6n

Copy … to clipboard

version=4
address=**192.168.13.161**
port=7171
port2=7172
offload=1

Copy the IP address to your clipboard and close the folder and the **wlmData.ini.**

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Open …

Example LongTerm
Type: Folder

Open the folder
Example LongTerm …

16

LongTerm
LongTerm
wlmData.dll
wlmData

Open …

… and open the file **wlmData.ini** with an texteditor.

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```
wlmData - Notepad
File  Edit  Format  View  Help
; ##################################################################################
; @file wlmData.ini
; @brief Example configuration file for HighFinesse NetAccess WLM/LSA network solution
; client side library
; @date: 2021.03.10
; @version: 0.1
; ##################################################################################

; wlmData.ini example scenario 1 configuration file
; ################################################

[default]                      ; Default settings (it match with all measurement applications)
version = 4                    ; IPv4
address = 192.168.13.183       ; Instrument server IP address
port    = 7171                 ; Set/Get TCP Port number
port2   = 7172                 ; CallbackProc/Ex TCP Port number
offload = 1                    ; ConvertUnit / ConvertDeltaUnit functions
                               ; network offload (1=On, 0=Off)
loglevel = 3                   ; Loglevel: Warning
errormode = 9                  ; Error signaling: Log+EXIT 1 + 8 = 9

; wlmData.ini example scenario 2 configuration file
; ################################################

; [LongTerm1.exe]              ; Configuration section for LongTerm1.exe
; version       = 4            ; IPv4
; address = 192.168.10.2       ; Instrument server IP address
; port   = 7171                ; Set/Get TCP Port number
; port2 = 7172                 ; CallbackProc/Ex TCP Port number
; offload = 1                  ; ConvertUnit / ConvertDeltaUnit functions network offload (1=On, 0=Off)
```

Find the factory set IP address in this file.

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Paste ... from clipboard

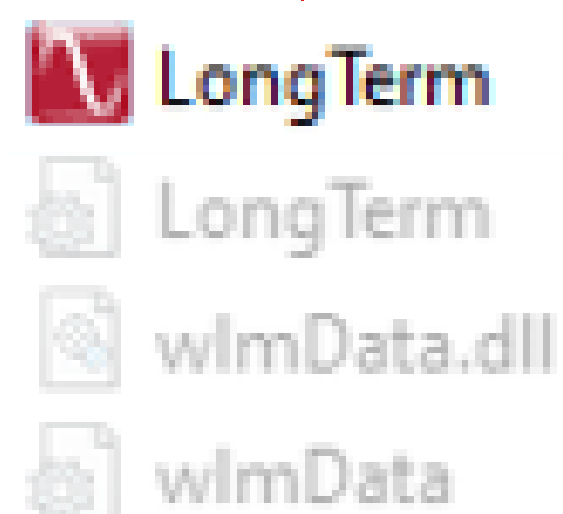Replace the factory set IP address by the address in your clipboard.

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LongTerm
LongTerm
wlmData.dll
wlmData

Save … and close

Save the file **wlmData.ini**
… and close this file.

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Open …

LongTerm
LongTerm
wlmData.dll
wlmData

Start the **LongTerm.exe.**

This program allows you to **log the wavelength and additional measurement data.**

See also: **Introduction LongTerm.pdf**

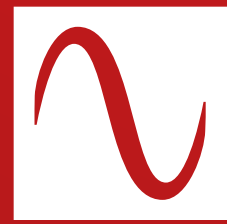It also allows you to
save the data as an ASCII file.

More detailed description
of the application, see:

How to …

… control the Wavelength Meter
with your own application via
the network.

HighFinesse Tutorial

NetAccess_UserGuide.pdf

HighFinesse

The Standard of Accuracy

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