APN-CIT-0001

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Application Note

How to start server demo program of Nquire?

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Setting your IP configuration

Step1. Setting your PC ip v4 setting,
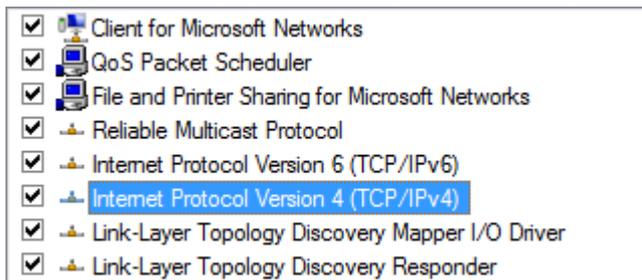
Except 192.168.1.200, you can setting any address of it, for example, we use 192.168.1.11.
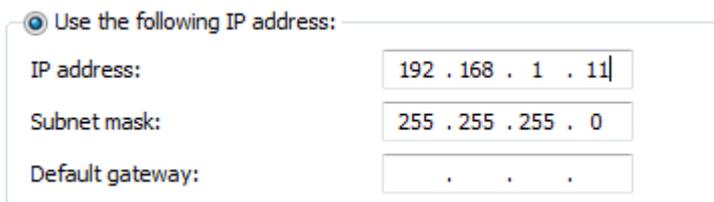
Step2. Please connect Nquire to your LAN, login 192.168.1.200,

Step3. Go to network setting page, we can see the setting as the picture.
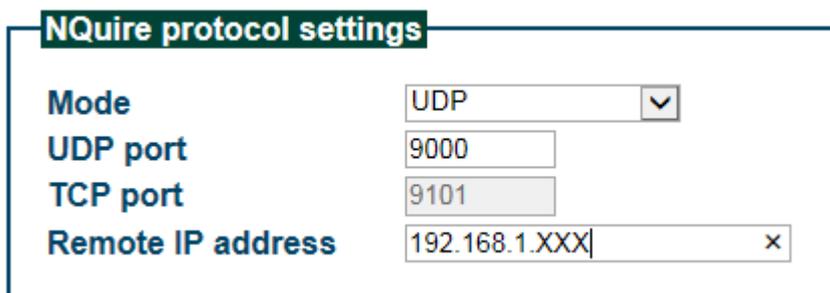
And follow the setting as below:

Mode: UDP
UDP port: 9000
Remote IP address: your host IP address

Firewall Setting

Go to Control panel-> system and security-> Allow a program through windows firewall.
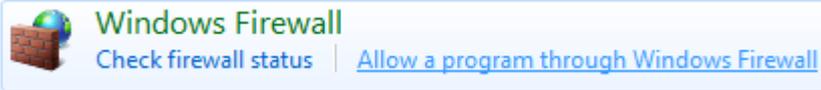
Confirm nquire-server-demo is on the list, or just run the program, the inquire dialog will automatic pop up to ask is it need to in firewall exception list, please allow all the selections.
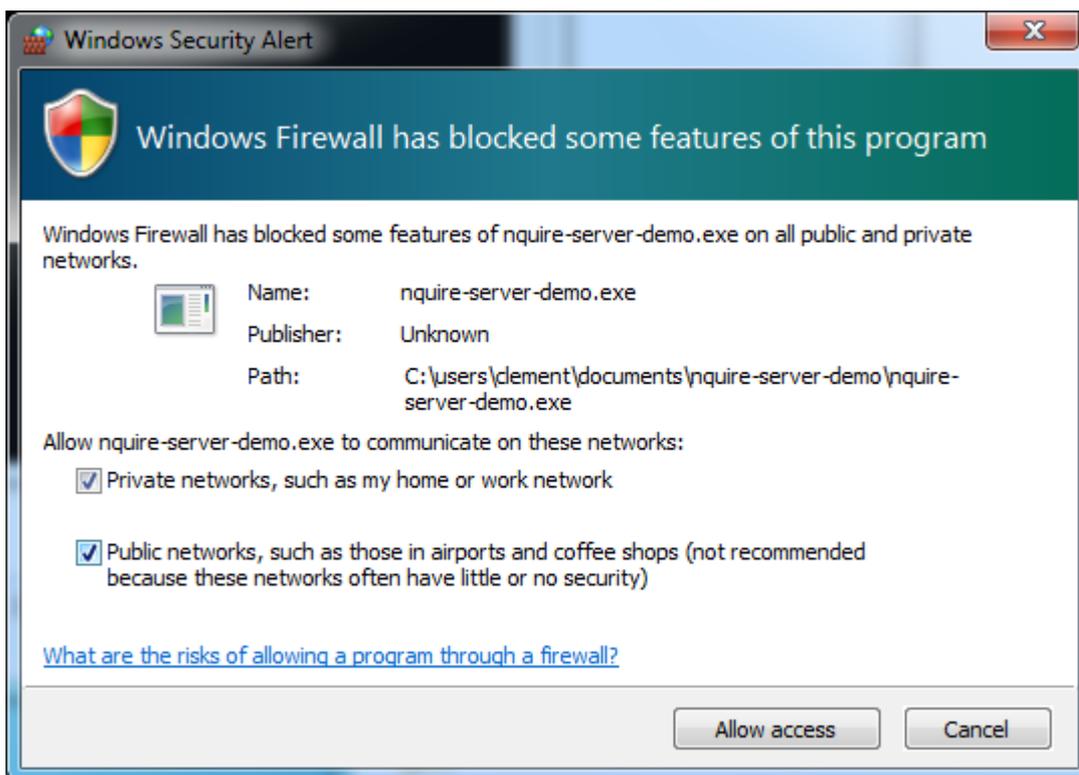
Modify "barcode.ini" and "format.ini"

Step1. We open barcode.ini in nquire-server-demo folder, we will see:

```
# This is an example database file with barcodes
# The barcodes are defined in the sections with the complete
# barcode as the section-name
#
# A line starting with a '#' is recognized as a comment
#
# A zero-length barcode is used as a fall-back in case a
# barcode could not be found.
#
# A barcode sections is formatted with a format specifier and tags.
# The format specifier defines the name of the format.
# The tags start with "tag." followed by the tag-name. The tag-name can
# be referenced in the specified format as a variable using ${tagname}
#
# Spaces are significant: typing a space at the end of a line (eg the format)
# would give a different formatname than when no space was typed.

# The following code ID's are used to identify which barcode is scanned:
# Barcode          Identifier      Barcode             Identifier
# EAN-8            FF              Codabar             %
# EAN-13           F               Code 93             c
# Code128          #               MSI Plessey m
# EAN128           P               PDF417   r
# IF 2/5           i               QR Code             s
# Code39           *               Aztec    z
# GS1 Databar R            DataMatrix        u
# barcode testing booklet barcodes:


[Newland]
format=normal
tag.text=Lipton Tea
tag.count=312 tea bags\nNet 705g
tag.price=2.99

[F1264123195459]
format=normal
tag.text=Quaker Oatmeal
tag.count=16 servings\n62.5g per serving
tag.price=11.89
```

Modify "barcode.ini" and "format.ini"

Step2.
Ok, we can learn how it is mean as below:

Row1: [F1264123195459]   // it mean barcode "F1264123195459", 'F' is situation EAN-13
Row2: format=normal   // barcode is 1264123195459, format mapping to "normal",
Row3: tag.text=Quaker Oatmeal   // "Quaker Oatmeal" is a text you can define,
Row4: tag.count=16 servings\n62.5g per serving   // "16 servings\n62.5g per serving" text define,
Row5: tag.price=11.89   // Text define

Step3.
Open format.ini, we can see:

Row1: [normal]   // Define a format "normal".
Row2: \e\x24   // "\e\x24" -> clean the nquire screen and move the cursor to top left.
Row3: \e\x42\x30${text}\n   // "\e\x42\x30" -> set the font to small size.
Row4: ${count}\x03   // "\x03" -> command end command.
Row5: \e\x42\x31   // "\e\x42\x31" -> set the font to large size.
Row6: \e\x2e\x38USD ${price}\x03   // "\e\x2e\x38" -> set the cursor to bottom right.

Step4.
We compare barcode.ini and format.ini, we will understand what are the relations.

```
[F1264123195459]                          [normal]
format=normal                             \e\x24
tag.text=Quaker Oatmeal                   \e\x42\x30${text}\n
tag.count=16 servings\n62.5g per serving  ${count}\x03
tag.price=11.89                           \e\x42\x31
                                          \e\x2e\x38USD ${price}\x03
```
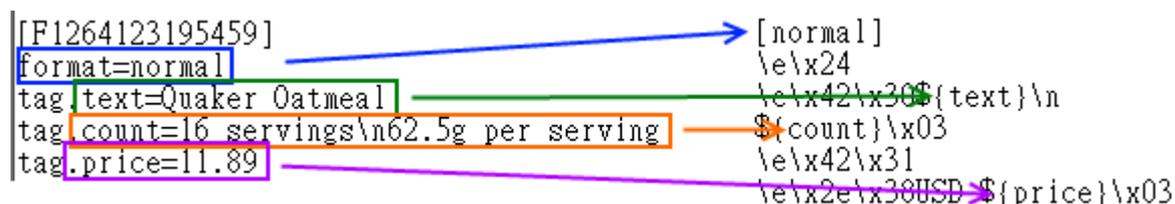
We can go on to the next chapter, execute "nquire-server-demo.exe".

Run "nquire-server-demo.exe"

Step1.

Execute "nquire-server-demo.exe".

We will see the software loading barcode.ini and format.ini,

Try to scan any barcode to test, we should see the response, if not, it should have a communication issue, may have two problems,

1. Firewall does not allow this software.

   Please go back to the Firewall setting chapter, try to setup again.
2. It has an IP collision or LAN area overlapping.

   If you used multiple networks, like this:
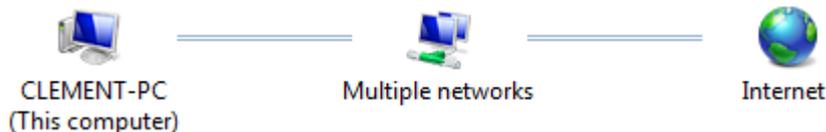
   Please try to turn off the sub network area which is not in the same as Nquire.

Step2. If connect success, scan any barcode, we will see:

We try a barcode code93 "Newland", it is success have a response, now, we can try 1264123195459 EAN-13 this barcode which is defined in ini, if success, we will see the displaying on nquire.

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Run "nquire-server-demo.exe"

```
[2013-11-20 10:44:13 #1 INF] Using database directory .
[2013-11-20 10:44:13 #2 INF] Using UDP port 9000
[2013-11-20 10:44:13 #3 INF] Reloading ./barcodes.ini
[2013-11-20 10:44:13 #4 INF] Reloading ./formats.ini
[2013-11-20 11:06:07 #5 INF] Received barcode "cNewland"
[2013-11-20 11:06:07 #6 WRN] Barcode "cNewland" not defined in database.
[2013-11-20 13:13:18 #7 INF] Received barcode "F1264123195459"
```

Quaker Oatmeal
16 servings
62.5g per serving

USD 11.89