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<b>Platform</b>	S60 3rd Edition, S60 5th Edition	<b>Tested on devices</b>	Qt Creator IDE
<b>Category</b>	Qt for Symbian	<b>Subcategory</b>	

**Keywords (APIs, classes, methods, functions):** QNetworkInterface

## Introduction

The QNetworkInterface class provides a listing of the host's IP addresses and network interfaces.

QNetworkInterface represents one network interface attached to the host where the program is being run. Each network interface may contain zero or more IP addresses, each of which is optionally associated with a netmask and/or a broadcast address.

## Preconditions

- Download and Install latest version [Qt for Symbian - Installation packages](#) which has links on how to install the latest version

## Functions

- This convenience function returns all IP addresses found on the host machine.

```
QNetworkInterface *inter=new QNetworkInterface();
inter->allAddresses();
```

- Returns a listing of all the network interfaces found on the host machine.

```
QNetworkInterface *inter=new QNetworkInterface();
inter->allInterfaces();
```

## Source Code

## Header File

```

#ifndef NET_H
#define NET_H

#include <QtGui/QWidget>
#include<QNetworkInterface>
#include<QList>
#include<QLabel>
#include<QHBoxLayout>
#include<QString>
#include<QHostAddress>
#include<QListWidget>
namespace Ui
{
    class netClass;
}

class net : public QWidget
{
    Q_OBJECT

public:
    net(QWidget *parent = 0);
    ~net();

private:
    QNetworkInterface *inter;
    QLabel *lbl;
    QHBoxLayout *lay;
    QListWidget *item;

};

#endif // NET_H

```

## Source File

```

#include "net.h"
#include "ui_net.h"

net::net(QWidget *parent)
    : QWidget(parent)
{
    QList<QHostAddress> list;
    lbl=new QLabel(this);
    lay=new QHBoxLayout(this);
    item=new QListWidget(this);
    inter=new QNetworkInterface(this);
    list=inter->allAddresses();
    QString str;
    for (int i = 0; i < list.size(); ++i) {

        str = list.at(i).toString();
        item->addItem(str);
    }

    lay->addWidget(item);
    setLayout(lay);
}

```

## Getting\_Host's\_IP\_addresses\_and\_Interfaces

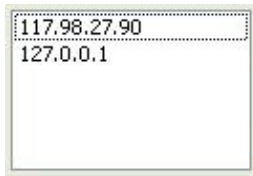
```
}  
  
net::~net ()  
{  
    // No need to delete any object that got a parent that is properly deleted.  
}  
}
```

## Source File for getting network Interface

```
#include "net.h"  
#include "ui_net.h"  
  
net::~net(QWidget *parent)  
    : QWidget(parent)  
{  
    QList<QNetworkInterface> list;  
    lbl=new QLabel(this);  
    lay=new QHBoxLayout(this);  
    item=new QListWidget(this);  
    inter=new QNetworkInterface(this);  
    list=inter->allInterfaces();  
    QString str;  
    for (int i = 0; i < list.size(); ++i) {  
  
        str = list.at(i).name();  
        item->addItem(str);  
    }  
  
    lay->addWidget(item);  
    setLayout(lay);  
}  
  
net::~~net ()  
{  
}  
}
```

## Screenshot

- Showing Host IP's



- Showing Network Interface

## Getting\_Host's\_IP\_addresses\_and\_Interfaces

