

How to get external IP address using Delphi software?

Dear readers of SoftMaker.kz blog. Today I'll give a Delphi example that can help you to get external IP address in the Internet. One post from this series has already explained [how to get computer IP address in a local network using Delphi](#). Here is a Delphi example that can help you to get external IP address even if you work in a local network and your computer is behind proxy server, gateway or router. This functional is realized using a little program [GetExternalIP](#).

Internet Protocol Address allows computers (printers, modems) to interact with each other in a computer network. The whole Internet is based on TCP/IP connection. A TCP part describes how two computers can connect to each other to transfer data. An IP part is responsible for transfer and routing of messages between Internet stations. If your computer is a part of home or office network, you must have equipment for the Internet connection that links home (office) local local network (LAN) with WAN.

As a rule, internal (local) IP addresses are numbers like: "192.68.1.2". External (global) IP addresses of a modem (for example [KEENETIC router](#), in russian), are installed when a modem is connected to an Internet provider. If you want to know your external IP address using Delphi code, you may want to use a website "http://www.softmaker.kz".

First, you need to put a component **IdFTP** on a form from a component set **Indy Clients**. A code given below is required to get modem IP address that is used by your computer to connect

to the Internet.

```
function GetHTML(const AURL: string): string;
var
  sHead,sHost,sPage: string;
  x,xCnt,xCntTotal: integer;
  sock: TClientSocket;
  ws: TWinSocketStream;
  ss: TStringStream;
  buff: array[0..4095] of char;
const
  CrLf = #13#10;
begin
  Result := '';

  sHost := AURL;
  x := Pos('//',sHost) ;
  if x > 0 then
    System.Delete(sHost,1,x+1) ;
  x := Pos('/',sHost) ;
  if x > 0 then
    begin
      sPage := Copy(sHost,x,Length(sHost)) ;
      System.Delete(sHost,x,Length(sHost)) ;
    end
  else
    begin
      sPage := '/';
    end;

  sock := TClientSocket.Create(nil) ;
  try
    try
      sock.ClientType := ctBlocking;
      sock.Port := 80;
      sock.Host := sHost;
      sock.Open;

      // Set up a 20 second delay
      ws := TWinSocketStream.Create(sock.Socket,20000) ;
      ss := TStringStream.Create('') ;
```

```

try
  sHead := 'GET ' + sPage + ' HTTP/1.0 ' + CrLf +
           'Host: ' + sHost + CrLf +
CrLf;
  StrPCopy(buff,sHead) ;

  ws.Write(buff,Length(sHead) + 1) ;
  ws.Position := 0;

  FillChar(buff,SizeOf(buff),0) ;
  repeat
    xCnt := ws.Read(buff,SizeOf(buff)) ;
    xCntTotal := xCntTotal + xCnt;
    ss.Write(buff[0],xCnt) ;
  until xCnt = 0;

  Result := ss.DataString;
finally
  ws.Free;
  ss.Free;
end;
except
end;
finally
  sock.Free;
end;
end;

```

That's how you can use this function in order to get external IP address from en.softmaker.kz.

Put a button on the form and write in the event handler the following:

```

procedure TForm1.Button1Click(Sender: TObject);
var
  ip: string;
begin
  with TStringlist.Create do
    try

```

Text :=

```
GetHTML('http://en.softmaker.kz/get_an_external_ip_address.php
') ;
    if Count > 0 then ip := Strings[Count - 1];
finally
    Free;
end;
ShowMessage('Your external ip address: ' + ip);
end;
```

File content **get_an_external_ip_address.php** is as follows:

```
<?php
```

```
$ip=$_SERVER['REMOTE_ADDR'];
echo $ip;
```

```
?>
```