

Zapp Turbo

Accelerator Internet

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Descriere generala

Zapp Turbo este o solutie prin care viteza conexiunii Zapp este imbunatatita. Astfel se poate transfera o cantitate mai mare de informatie in acelasi interval de timp (fara a presupune costuri suplimentare).

Beneficii

- Imbunatatirea vitezei de transfer in regim de download/upload. Fisierile compresibile (word, excel, power point, etc) pot fi transferate cu viteze de cateva ori mai mari fata de conexiunea Zapp clasica (fara Zapp Turbo).
- In cazul expedierii fisierelor atasate cu programele clasice de e-mail (Outlook, Outlook Express, Netscape Messenger, Eudora) va fi remarcata o diferenta semnificativa intre transferul optimizat de Zapp Turbo si cel normal.
- In cazul utilizarii in regim de browsing (WWW) exista posibilitatea reducerii dimensiunii imaginilor in favoarea vitezei.
- Programul client este usor de instalat si nu presupune cunostinte avansate de configurare.

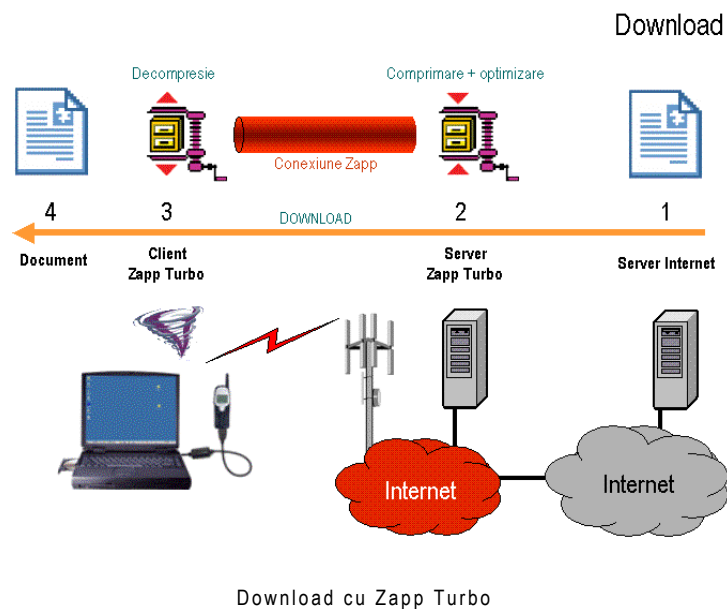
Principiul de functionare

La capetele conexiunii Zapp se vor afla urmatoarele elemente:

- Un server (sau un cluster de servere) aflat in retea Zapp
- Un program client instalat pe calculatorul utilizatorului Zapp

Atat serverul cat si programul client vor aplica un set de algoritmi de compresie si optimizare ce vor permite un transfer mai mare de date in acelasi interval de timp, prin aceeasi conexiune.

In cazul unui download, fisierul de pe un server (web, mail, server de aplicatii) va fi procesat de catre serverul Zapp Turbo (comprimit si optimizat pentru traversarea conexiunii Zapp), iar programul client il va decompresa la destinatie.



Rezultatul este un transfer de date mai bun.

Pentru a verifica performantele atinse de Zapp Turbo, puteti face teste de transfer accesand adresa de web : <http://www.zappmobile.ro/data/test/> (click dreapta pe fisier si selectati optiunea Save As)

Address <http://www.zappmobile.ro/data/test/>

Index of /data/test

Name	Last modified	Size
Parent Directory	16-Jun-2003 09:34	-
test.doc	27-Jun-2003 14:15	3.1M
test.txt	08-Jul-2003 10:04	28.6M
test.xls	27-Jun-2003 14:30	21.3M
tes	18-Sep-2002 14:49	5.9M
tes	20-Jan-2003 12:13	11.8M


adresa utila pentru testarea vitezei de transfer din retea Zapp

Address <http://www.zappmobile.ro/data/test/>







Index of /data/test

Name	Last modified	Size
Parent Directory	16-Jun-2003 09:34	-
test.doc	27-Jun-2003 14:15	3.1M
test.txt	08-Jul-2003 10:04	28.6M
test.xls	27-Jun-2003 14:30	21.3M



In cazul fisierelor compresibile,
viteza de transfer prin Zapp Turbo creste mai mult

Address  http://www.zappmobile.ro/data/test/


Index of /data/test

<u>Name</u>	<u>Last modified</u>	<u>Size</u>
 Parent Directory	16-Jun-2003 09:34	-
 test.doc	27-Jun-2003 14:15	3.1M
 test.txt	08-Jul-2003 10:04	28.6M
 test.xls	27-Jun-2003 14:30	21.3M
 test.zip	18-Sep-2002 14:49	5.9M
 test2.zip	20-Jan-2003 12:13	11.8M

47% of test2.zip Completed



Saving:
test2.zip from www.zappmobile.ro

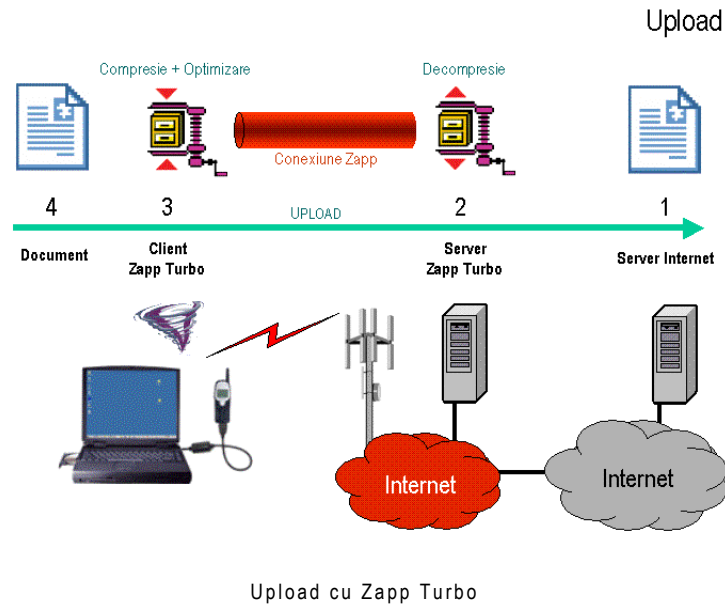


Estimated time left: 7 min 9 sec (5.47 MB of 11.7 MB copied)
Download to: C:\Documents and Settings\...\test2.zip
Transfer rate: 15.1 KB/Sec

Close this dialog box when download completes

In cazul fisierelor putin compresibile (compacte), viteza de transfer prin Zapp Turbo va fi mai putin importanta

Acelasi principiu de functionare este aplicat si in cazul transferului de date efectuat dinspre calculatorul clientului spre Internet (exemplu: *fișiere atasate la un e-mail*)



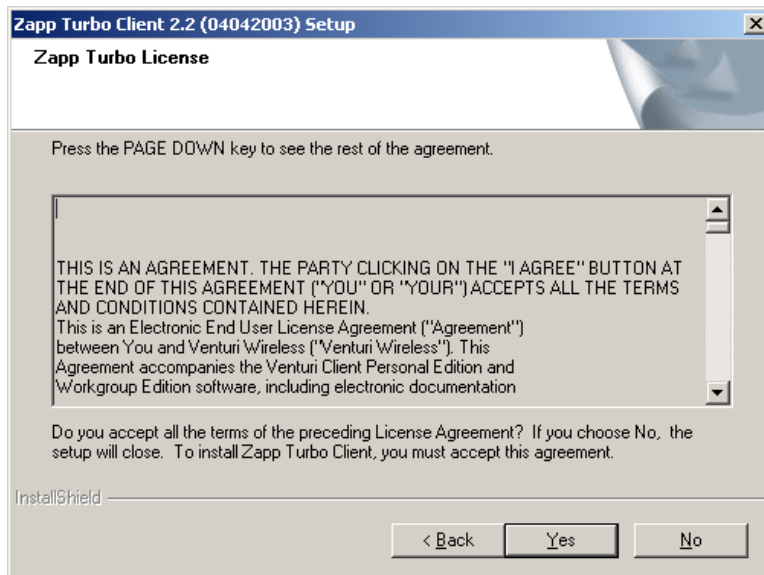
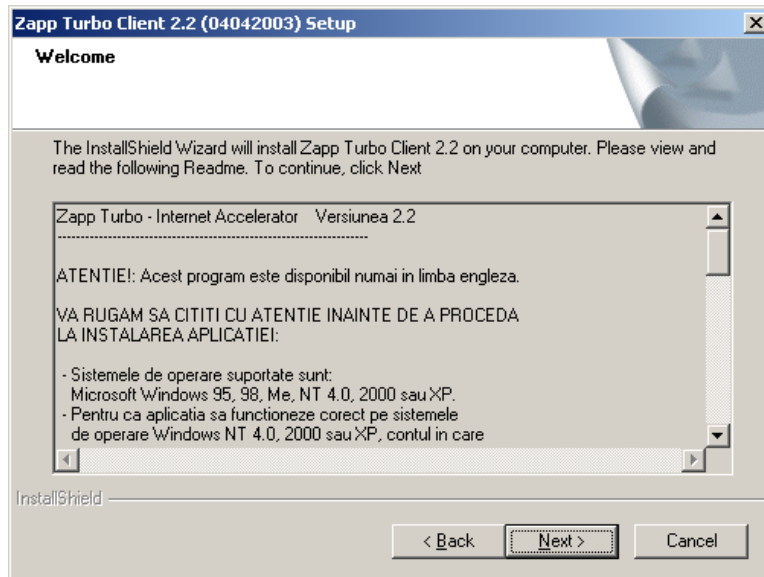
Instalare si configurare

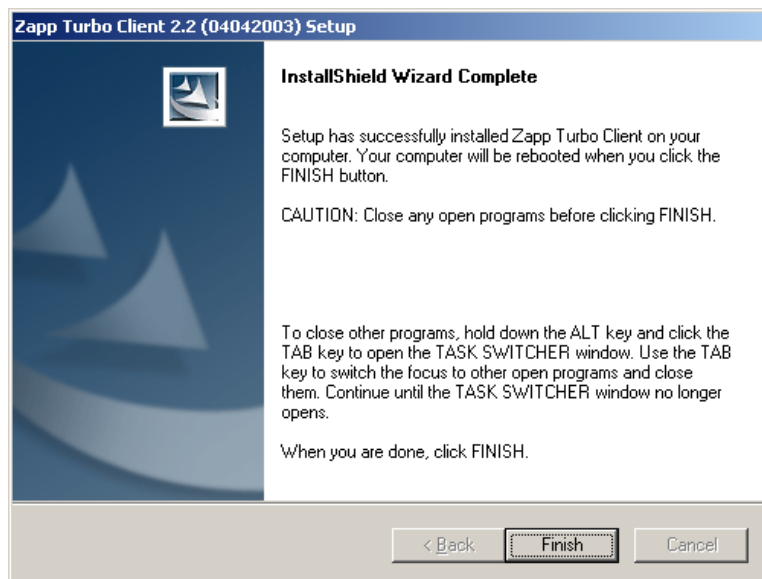
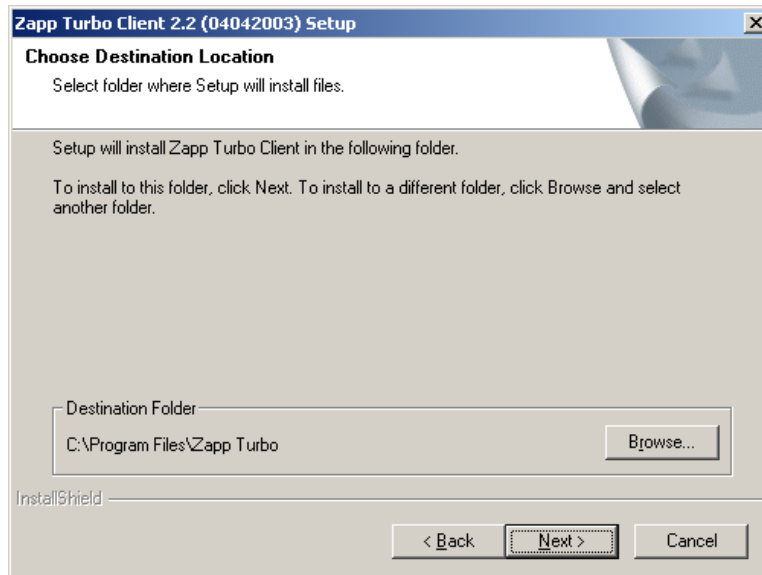
Pentru instalarea programului client este suficient sa copiatii intr-un director local kit-ul de instalare aflat la adresa:
<http://www.zappmobile.ro/data/store/kits/zapp-turbo/>

Recomandari:

- Inchideti toate aplicatiile inainte de lansarea wizard-ului de instalare.
- In cazul in care doriti sa utilizati o aplicatie de tip firewall, este recomandat ca aceasta sa fie instalata dupa programul Zapp Turbo

Urmati instructiunile programului automat de instalare (wizard).





Operare/configurare

Programul client nu presupune o configurare speciala, fiind functional imediat dupa instalare. Optional, puteti modifica in functie de preferinte, setarile initiale.

Dupa lansare, in partea inferioara a ecranului (system tray) va fi vizibil urmatorul icon:



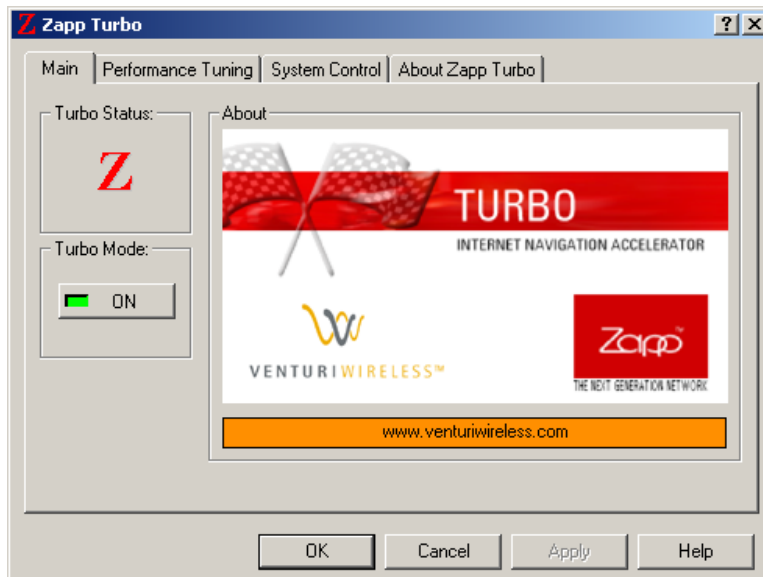
ON (pornit)



OFF (oprit)

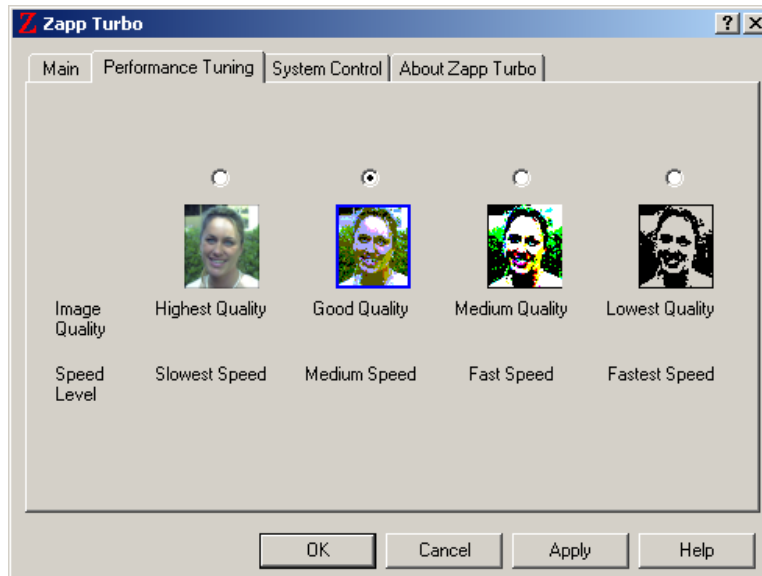
Lansarea consolei de administrare se face prin dublu click pe icon.

Schimbarea starii de functionare (ON/OFF)



Aplicatia poate fi pornita / oprita din Main > Turbo mode > ON/OFF

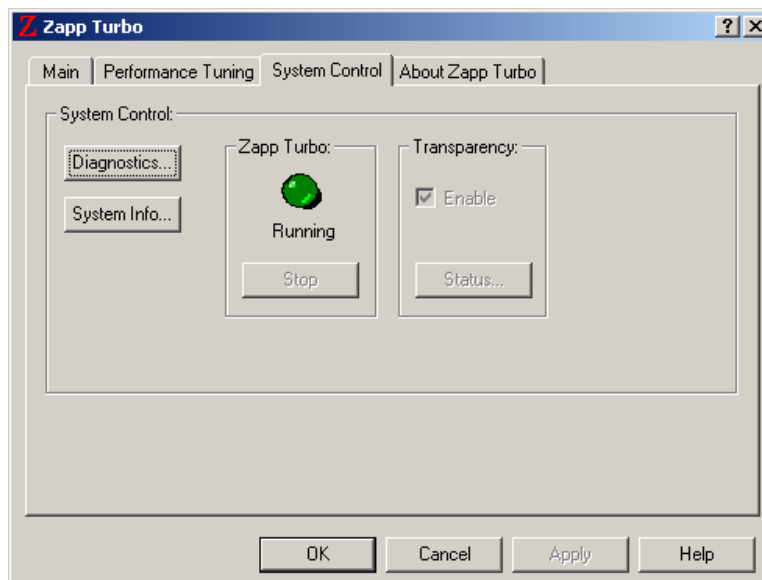
Reducerea dimensiunii imaginii in favoarea vitezei (Performance Tuning)



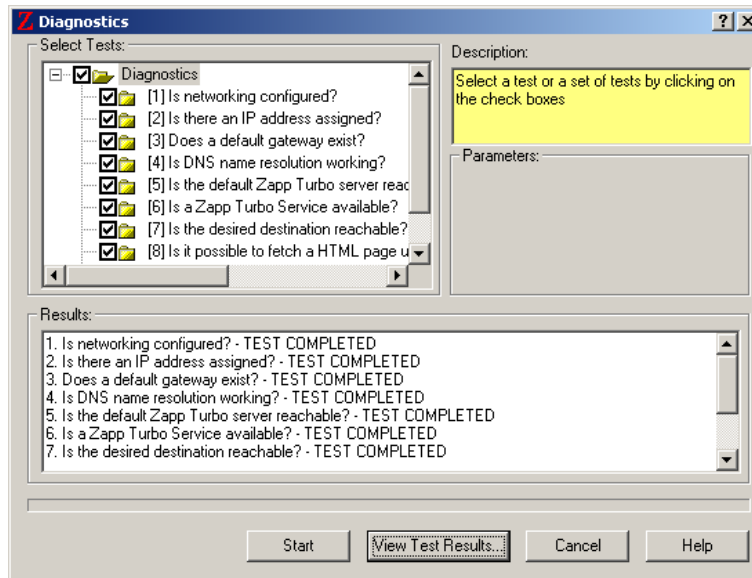
Serverul Zapp Turbo are optiunea de reducere a dimensiunii imaginilor continute de site-urile web. Algoritmul de reducere a dimensiunii este asemanator cu cel folosit de formatul jpeg.

Monitorizare si diagnoza

Aplicatia include un set de teste privind setarile de retea precum si starea retelei TCP/IP. Rezultatele acestor teste pot fi salvate intr-un fisier text (diagnostics.txt).



System Control > Diagnostics:



Exemplu de fisier cu rezultatele testului.

Test Number:1 ...Is networking configured?

```
Pinging loopback address. This makes sure TCP/IP is installed and working fine.
Pinging 127.0.0.1 with 32 bytes of data:
Reply from 127.0.0.1: bytes=32 time=0ms TTL=128
Reply from 127.0.0.1: bytes=32 time=0ms TTL=128
Reply from 127.0.0.1: bytes=32 time=0ms TTL=128
Ping statistics:
    Packets Sent = 3, Received = 3, Lost = 0 (0 %loss)
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
Test Succeeded.
```

Test Number:2 ...Is there an IP address assigned?

```
This test makes sure operating system and network adapter
are communicating with each other.
IP address was found to be [ 80.97.191.173 ].
Pinging IP address.
Pinging 80.97.191.173 with 32 bytes of data:
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Ping statistics:
    Packets Sent = 3, Received = 3, Lost = 0 (0 %loss)
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms
Test Succeeded.
```

Test Number:3 ...Does a default gateway exist?

```
Default gateway is a system that connects a subnet with one or more other
networks.
Messages intended for hosts on other networks are directed to the default gateway.
```

The default gateway routes the messages to its final destination.
Default gateway of your subnet was found to be [80.97.191.173].
Pinging default gateway.
Pinging 80.97.191.173 with 32 bytes of data:
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Reply from 80.97.191.173: bytes=32 time=0ms TTL=128
Ping statistics:
Packets Sent = 3, Received = 3, Lost = 0 (0 %loss)
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 0ms, Average = 0ms
Test Succeeded.

Test Number:4 ...Is DNS name resolution working?

DNS server was found to be [172.16.253.241]. Pinging DNS server.
Pinging 172.16.253.241 with 32 bytes of data:
Reply from 172.16.253.241: bytes=32 time=251ms TTL=61
Reply from 172.16.253.241: bytes=32 time=160ms TTL=61
Reply from 172.16.253.241: bytes=32 time=260ms TTL=61
Ping statistics:
Packets Sent = 3, Received = 3, Lost = 0 (0 %loss)
Approximate round trip times in milli-seconds:
Minimum = 160ms, Maximum = 260ms, Average = 223ms
Performing NSLOOKUP using [172.16.253.241] as DNS server.
Server: ns2.zappmobile.ro
Address: 172.16.253.241
Non-authoritative answer:
Name: www.venturiwireless.com
Address: 199.26.153.100
Given address [www.venturiwireless.com] was successfully resolved to [199.26.153.100].
Test Succeeded.

Test Number:5 ...Is the default Zapp Turbo server reachable? Given Venturi Server [turbo.zapp.ro] was successfully resolved to [172.31.5.10].

Pinging Venturi Server [turbo.zapp.ro].
Pinging turbo.zapp.ro with 32 bytes of data:
Reply from 172.31.5.10: bytes=32 time=170ms TTL=62
Reply from 172.31.5.10: bytes=32 time=170ms TTL=62
Reply from 172.31.5.10: bytes=32 time=161ms TTL=62
Ping statistics:
Packets Sent = 3, Received = 3, Lost = 0 (0 %loss)
Approximate round trip times in milli-seconds:
Minimum = 161ms, Maximum = 170ms, Average = 167ms
Test Succeeded.

Test Number:6 ...Is a Zapp Turbo Service available?

Attempting real connection (RC) to Venturi Server [turbo.zapp.ro].
RC status: VS_OK.
Test Succeeded.

Test Number:7 ...Is the desired destination reachable?

Given destination address [www.venturiwireless.com] was successfully resolved to [199.26.153.100].
Attempting TCP connection to HTTP port(80) of destination address [www.venturiwireless.com].
TCP connection status: CONNECT_OK.
Test Succeeded.

Test Number:8 ...Is it possible to fetch a HTML page using Zapp Turbo Service?

Retrieving html page from www.venturiwireless.com
Retrieving html succeeded. Retrieved 50389 bytes (28 files) 33388 ms
Test Succeeded.

Test Number:9 ...Determine the time to download a whole web page using Zapp Turbo.

Retrieving html page from www.venturiwireless.com
Retrieving html succeeded. Retrieved 50389 bytes (28 files) 26519 ms
Test Succeeded.

Test Number:10 ...Determine the time to download a whole web page WITHOUT using Zapp Turbo service.

Retrieving html page from www.venturiwireless.com
Retrieving html succeeded. Retrieved 50389 bytes (28 files) in 63892 ms
Test Succeeded.