

???????? ???? ???

????, ?? ????????????? TFTP, ????? ????????????? ????? DD-WRT ????? crash mode (?????? ?????????? ?????? ?????). ??? ?????????? ?????????, ????? ?????????? ? ????????? ????? TFTP.

???????? DIR-320 ????????????? ?? ?????????? TFTP. ????? ?????????? ????????? ??????????????????????? ?? ?????????? ?????? (????? 2 ?????) ?????????????? ?????????????? ?????? TFTP, ? ?????????? ?????????? ?????? ?????????? ? ?????????????? ?????? ??????????. ????? ????????? - ?????????????? ?????????????? ?????? ?????????, ? ?????????? ?????????? ?????? ?????????? ?????????? ?????? ???????????????. ? ?????????? ?????? ?????????????? ??????, ?????? ?????? ?????? ?????? ? ?????, ?????? ?????????? ?????????? ??????????, ? ?????????????? ??????????.

?????: ?????????? DIR-320 ?? ?????????? ?????????????? D-Link ?? ?????????? TFTP ?????? ?????? ? ?????????? ?????????? ?????????? ??????????????. ? ?????? ??????, ?????? ?????????????? ?????? ?????????? ? ?????????? ?????? ?????????? ?????????? ?????? DIR-320: ?????????? ?????????, ?????????? ? ?????????? Reset, ?????????? ?????????, ????? 15 ???., ?????????? ?????????? Reset. ?????? ?????? ?????????????? ?????????? ?????????????? ?? ping c TTL=100:

```
Reply from 192.168.0.1: bytes=32 time<lms TTL=100
```

? ?????? ?????????? ?????? ?????????????????????, ?? ?????????? ?????????? ?????????? ?????? ???-????????????? (?????? D-Link) ??? ?? TFTP. ??????? TFTP ?????????? ?? ??? ?????, ? ?????????? ?????????????? ?????? (????? 4 ???.) ?????? ?????????????? ?????????. ??????????, ?? ?????????????? ?????? ?????????? ?????? ?????? ?????? ?????? ?????? **?????????? DIR-320.**

????????????? ?? ?????? ?????????????? ?????????????? ??????, ?????????? ? ?????? dd-wrt ?? ?????? C:\ ? ?????????? ?????????????????? ?????? ?????????, ?? ?????????????? ?????? ?????????? ?????? ?????????? <Enter>. ?? ?????? ?????? ?????? ?????????? ??????????????:

Microsoft Windows XP [Version 5.1.2600]?
Copyright 1985-2001 Microsoft Corp.

```
C:\Documents and Settings\someuser> cd c:\dd-wrt
C:\dd-wrt> tftp -i 192.168.0.1 put firmware.bin
```

(????????????? ?????? ?????????? ?????????? ?????? ??????????)

????????????????????? ?????? ?????????? ?????????? ?????????????? ?????????????? ?????? ?? ?????????? ?????????????? (?????? Reset, ?????? ? ?????????? ??????????)

?? ?????? ?????? ?????????? <Enter> ??? ?????????? ?????????????? ?????? ?????????? «tftp -i 192.168.0.1 put firmware.bin» ?????????? ?????? ??? ?????????? ?????? ?????????????? ?????????? DIR-320 (??. ?????? ?????????????? ?????????????? ?????????????? ?? Ethernet). ?????? ?????????? ?????? ?????????? ?????????????????????, ?????????????? LED1 ?? ??? ?????? ?????? ?????????? ? ?????????? ?????????? ?????? ?????? ?????? ?????? ??????????????. ?? ?????????? ?????????? ?????????????? ?? ?????????? ?????????????? ??????????:

```
?????????? ???? ??????: 3092480 ??? ? 11 ?s, 281134 ???/?
```

????? ?? ?? ?????????? ?????? ?????????? ?????? ?????????? <Enter>, ?????????? ?????? ?????????? ?????? ?????? ?????????????? ? ?????????????? ??????????????. ? ?????? ?????? ?????? ?????????????? ?????????????? ?????? ?????????: ?????????? ?????????? ?????????????????????? ? ?????????????? ?????? ?????????? ?????? ?????????? ?????? ?????? ?????? ?????? ?????????????? ?????????? tftp ??? ?????????? ? ?????? ??????????.

?????? ? ???, ?? ?????????? ?????????? ?????????????????????? ?????????? ?????? ?????? ?????????????? ?????????? ?????????????? ??????, ?????????? ?????? ?????????????? ?????? ?????????????????????? ? ?? ?????????? Reset ?????????????? ?????? ?????????????? ?????? ?????????. ?????? ?????????????????????? 10 ?????? ?????? ?????? ?????????????? ?????????? ??????????. ?? ??? ?????? ??????????

????????_DIR-320

?????? ???? ? ??????? ??????????? ? ? ?????? ???? ???? ?????????? ? ?????????? ??????. ??? ? ?????? ??????????? ????? ?????????? ?????? SSID «dd-wrt» - ?????, ?????? ????????? ??????? ??????????.

????? ?? ?????? ?????, ? ?????? ?????? ?????? ?????? ??????, ??????, ?????????????? ????????, ?????????? ? ?????????? ???????.

????????: ? ?????????? ??????? ???????, ??? tftp ??????? ?????????? <Error 3>: **Operation cancelled**, ?? ?????????? ??????? ?????????? ?????????? ??????. ?????? ?????? ????????????, ?? dd-wrt VPN ??????? ?? ?????? ?????????? ??-?? ?????? ??????, ??? ?????????????? ??????? ?? ?????? (mini/micro), ? ?????? ?? mini ?? micro ??????? ??????? ?????? ?????? ??-????????? dd-wrt.

????????? ? ?????????????????? ??????????? ??????

????????? ??? flashing.cmd ? ????? C:\dd-wrt, ??? ?? ??? ?????????? ??? ? ??????????. ?????????? ?????? ?????? ??????????:

```
@Echo Off
:BEGIN
ping -n 1 -w 10 192.168.0.1
If errorlevel 1 Goto BEGIN
If errorlevel 0 Goto FLASH
    Goto END
:FLASH
Echo *** Start Flashing ****
tftp -i 192.168.0.1 put firmware.bin
:END
```

????? ?????????????? ?????? ?????????? ?????? ? ?????? ?????????????? ?? ?????? ?????????? ? ?????????? (?? ?????).

????????? ?????????? ??????, ?????????? ? ?????? c:\dd-wrt ? ?????????? ?????????? ??? flashing.cmd.

????????? ??????? ?????????????????.

????????? ??????? ??????????:

```
C:\dd-wrt>flashing.cmd
????? ?????????? ? 192.168.0.1 ?? 32 ?????:

????????? ?????????? ?????????? ??? ??????????.

????????????? Ping ??? 192.168.0.1:
    ?????????: ????????????? = 1, ?????????? = 0, ?????????? = 1 (100% ??????),
<<< SKIP >>> <<< SKIP >>> <<< SKIP >>> <<< SKIP >>>
????? ?????????? ? 192.168.0.1 ?? 32 ?????:

????? ?? 192.168.0.1: ?????? ?????=32 ?????=4?? TTL=100

????????????? Ping ??? 192.168.0.1:
    ?????????: ????????????? = 1, ?????????? = 1, ?????????? = 0 (0% ??????),
????????????????????? ?????? ???????-????????????? ? ??:
    ?????????????????? = 4?????, ?????????????????? = 4 ?????, ?????????? = 4 ?????
*** Start Flashing ****
????????? ??????????: 3092480 ??? ? 11 ?s, 281134 ?????/?
C:\dd-wrt>
```

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????????_DIR-320

????? ???, ?? ????????? ?????????? ?????? (~1-2 ??), ????? ?????????????? ? ?????????????? ?? ?????? 192.168.1.1.

????? ?????? ?????????? ?????? (????? ? ??? ?????? ?? ?????) ?????? ? ?????? ?????????? ?????????????? ? ?????????? ?????????? ? 500? ?????? ?????????? ?????????? tftp. ?????????????? ??????-?? ?? ?? ?????? ? ??????, ??? ?????????????? "?????" ?????? ??????. ?? ?????????????? ??????

[http://http://wiki.dd-wrt.com/wiki.oszone.net/index.php/????? ? ?????????? ?????, ? ?????????? nircmdc.exe \(http://www.nirsoft.net/utills/nircmd.zip\)](http://http://wiki.dd-wrt.com/wiki.oszone.net/index.php/????? ? ?????????? ?????, ? ?????????? nircmdc.exe (http://www.nirsoft.net/utills/nircmd.zip))

```
for /l %%a in (1, 1, 10) do (nircmdc.exe wait 500
start cmd.exe /k tftp -i 192.168.0.1 put firmware.bin)
```

????????? ?????? ?????????? ?????? ?????????????? ? ?????????? ??????????????????. ?????????? 10 ?????????? ??, ? ? ?????? ?? ?? ?????? ?????????? ??????, ?? ?????????? ?????????? ?? ??????????. ??? ?? ?????? ?? ?????????? ?????? ? ?????? ??????, ?? ?????? ?????????????? ?????????? ? windows ?????? IP-????? ?? ?????????? ?????????? ?????????? (????? ?????????????? ??????????). ?????? reg-????? ?????????? ??????????:

```
REGEDIT4
[HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\Tcpip\Parameters]
"DisableDHCPMediaSense"=dword:00000001
```

????????? ?????????? ? ?????, ?????????? ?????????? ? ?????????? ?????? ?????? ??????????????.

????????????? ? ???-????????????? DD-WRT

????? ?????? ?????????? ?????????? ?????? ?????????? ?????? ?????????? ?? ?????????? IP-????? ?? ?????? DHCP ? ?????? ? ?????????? ?????? ?????? ?????????? <http://192.168.1.1>. ?? ?????????? ?? ?????????????? ? ?????? ?? ?????? ? ??-????????? ? ?????????????? «root» ? «admin» (?? ??????).

???? ? ?-????????? ?????? ??-????????? D-Link, ?????????? ?????????? ??????????.

P.S. ?? ??? ?????? ? ?????? ?????? ?????? ?????? ?????? ?????? ?????? - ?????????????? ?????? arping (? *nix ?????????? ?? ?? ???), ?? Windows ?????? ?????????? ?? ?????????????? ?? ?????? http://www.ipacct.com/f/arping_for_windows-1.0.zip, ?? ?????? ?????? ?????? ?????? - ?????? ?????????? ?????? ?? ?????? ? ?? ?????????? :)

????????????????????? ?????????????? ??????????????

????????????????? ?????????? ?????????? ?????? DD-WRT ?????-????? ?????????? ? ?????? TFTP.

????????? ? <http://ftp.dlink.ru> ?????????? ??? DIR-320, ?????????? ?? ?? ?????? C:\dd-wrt ? ?????????????????? ? firmware.bin .

????? ?????? ??????????:

1. ?????????? ?????????????????, ?????? ?????? Reset ? ?????????? ?? ?? ?????? 30 ??????. (?? ?????? «????? 30/30/30».)

????????_DIR-320

2. ?????????? ? ?????? ?????????? ?????????? ????? 192.168.0.10 ? ????? 255.255.255.0, ?????????? ?????????? ?????? ?????????????? ? ?????? ?????????????????? LAN1, ??????? ?????????????????? ????? ??????????
3. ?????????? ? ?????????????????? ?????????? ?????????? ? ?????????? TFTP ? ?????? 192.168.0.1. ?????????? ??? ?????????? ?????????? ? TFTP ?????? ??, ?? ? ?? ?????????? DD-WRT (??. ???? ????????? "????????? ?????????" ? "????????? ? ?????????? ?????????? ??????", ?????????????????? ?????????? ??????? ??? ?????? ?????????).
4. ?????? ?????????????????? ?????? ?????????? ? ?????????? ??????? ?????????? <http://192.168.0.1> ? ?????????? ? ??????? ?????????????? ??????????????????. ?????????? ??????-????? ?????????? ?????? ?????? ? ?????????? D-Link ? ?????????? Update.
5. ?????? ????? 10 ?????, ?????? ???? ?????? ?????????? ?????????? ? ?????? <http://192.168.0.1> ? ??????????, ?????????????????? ? ?????????? ?????????? (???? ?????????????????? ? ?????????? ? admin, ??????? ??????). ?????? ?????? ? ?????????? ? ?????????? ?????????????? ?????? ?????????? Reset (???????? 30 ??????) ? ?????????????????? ? ?????????????? ?????????????? ?????????????? ?????????????? ?????????????? IP-??????.

????-?????

????? ?????????? ? ?????????? ???? ???? ?????? ?????? ?????? ?????????? ? ?????????????????? ?????? ??????, ?? ?????? ?????????? ?????????????? ???? ?????????? Reset ?????????? ?????????? ? ?????????????? ?????????? ? ?????????? 15 ??????. ?????? ?????? ?????? ? 192.168.0.1 ?????? web-?????????. ?????? ?????????? ?????????? ??????????????????. ??????? ?????????????? ?????????? ?????????????? ?????????? (<http://ftp.dlink.ru/pub/Router/DIR-320/Firmware/>).

????????????

???????????? 1. ?????????????? ?????????? ?????? flashing.cmd

????????????? ??????? ?????????????? ?????? flashing.cmd ? ?????????? ?????????????????? ???? ??????????

```
@echo off
echo =====
echo This batch file will upload dd-wrt firmware in the current directory to
echo 192.168.0.1 during the router's bootup.
echo.
echo * Set your ethernet card's settings to:
echo     IP:          192.168.0.2
echo     Mask:       255.255.255.0
echo     Gateway:   192.168.0.1
echo * Unplug the router's power cable.
echo.
echo Press Ctrl+C to abort or any other key to continue...
pause > nul
echo.
echo * Re-plug the router's power cable.
echo.
echo =====
echo Waiting for the router... Press Ctrl+C to abort.
echo.
set FIND=%WINDIR%\command\find.exe
```

????????????????? ?????????????? ??????????????

```

if exist %FIND% goto PING
set FIND=%WINDIR%\system32\find.exe
if exist %FIND% goto PING
set FIND=find
:PING
ping -n 1 -w 50 192.168.0.1 | %FIND% "TTL="
if errorlevel 1 goto PING
echo *** Start Flashing ****
tftp -i 192.168.0.1 put firmware.bin
if errorlevel 1 goto PING
set FIND=
echo.
echo =====
echo * WAIT for about 2 minutes while the firmware is being flashed.
echo * Reset your ethernet card's settings back to DHCP.
echo * The default router address will be at 192.168.1.1
echo.
pause

```

???????? 2. Bash-?????, ?????????????? ?????????? ?????? flashing.cmd

Bash-?????, ?????????????? ?????????????? ?????? ?????????? ?????? flashing.cmd.

```

#!/bin/bash
echo "===== "
echo "This script will upload dd-wrt firmware (firmware.bin)"
echo "in the current directory to 192.168.0.1 "
echo "during the router's bootup. "
echo ""
echo "* Set your ethernet card's settings to: "
echo "    IP:      192.168.0.10 "
echo "    Mask:    255.255.255.0 "
echo "    Gateway: 192.168.0.1 "
echo "* Unplug the router's power cable. "
echo ""
echo "Press Ctrl+C to abort or any other key to continue... "

read

echo ""
echo "* Re-plug the router's power cable. "
echo ""
echo "===== "
echo "Waiting for the router... Press Ctrl+C to abort. "
echo ""

try(){
ping -c 1 -w 1 192.168.0.1
}
try
while [ "$?" != "0" ] ;
do
try
done

```

????????????? 1. ?????????????? ?????? ?????? flashing.cmd

????????_DIR-320

```
echo "*** Start Flashing *** "  
atftp --no-source-port-checking -p -l firmware.bin 192.168.0.1  
echo "Firmware successfully loaded!"
```

???????? 3. sh-????? FreeBSD, ?????????? ?????????? ????? flashing.cmd

sh-????? FreeBSD.

```
#!/bin/sh  
echo "Power on DIR-320.";  
ping -Qqo 192.168.0.1 1>/dev/null 2>/dev/null;  
echo "Start Flashing.";  
cat <<EOF | tftp;  
mode binary  
rexmt 1  
connect 192.168.0.1  
put firmware.bin  
EOF
```

????????:

1. <http://www.shadowandy.net/2008/06/flashing-guide-for-dir-320.htm>
2. <http://www.dd-wrt.com/phpBB2/viewtopic.php?t=43099>
3. <http://www.dd-wrt.com/phpBB2/viewtopic.php?t=43229>
4. <http://www.dd-wrt.com/phpBB2/viewtopic.php?p=216809#216809>