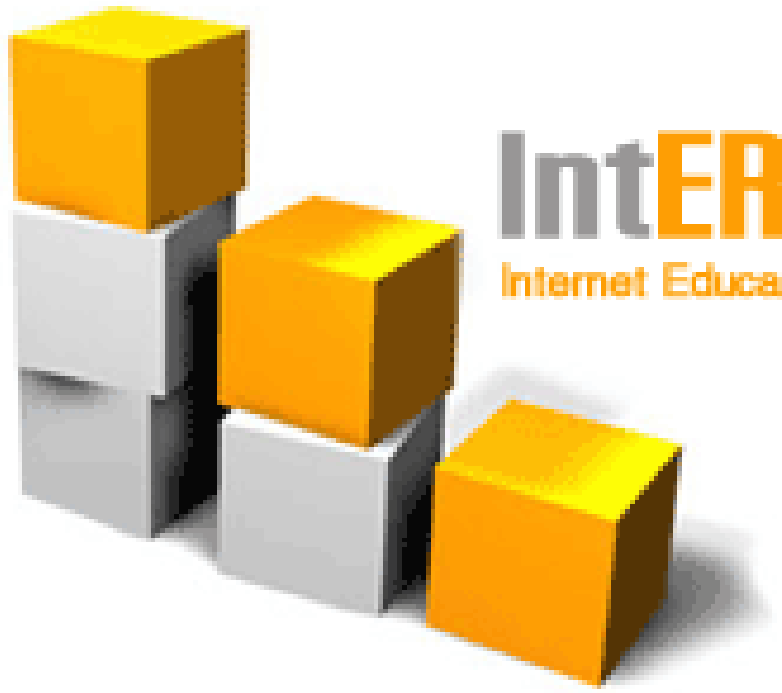

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DVTS
&
DVRelay Hands-On

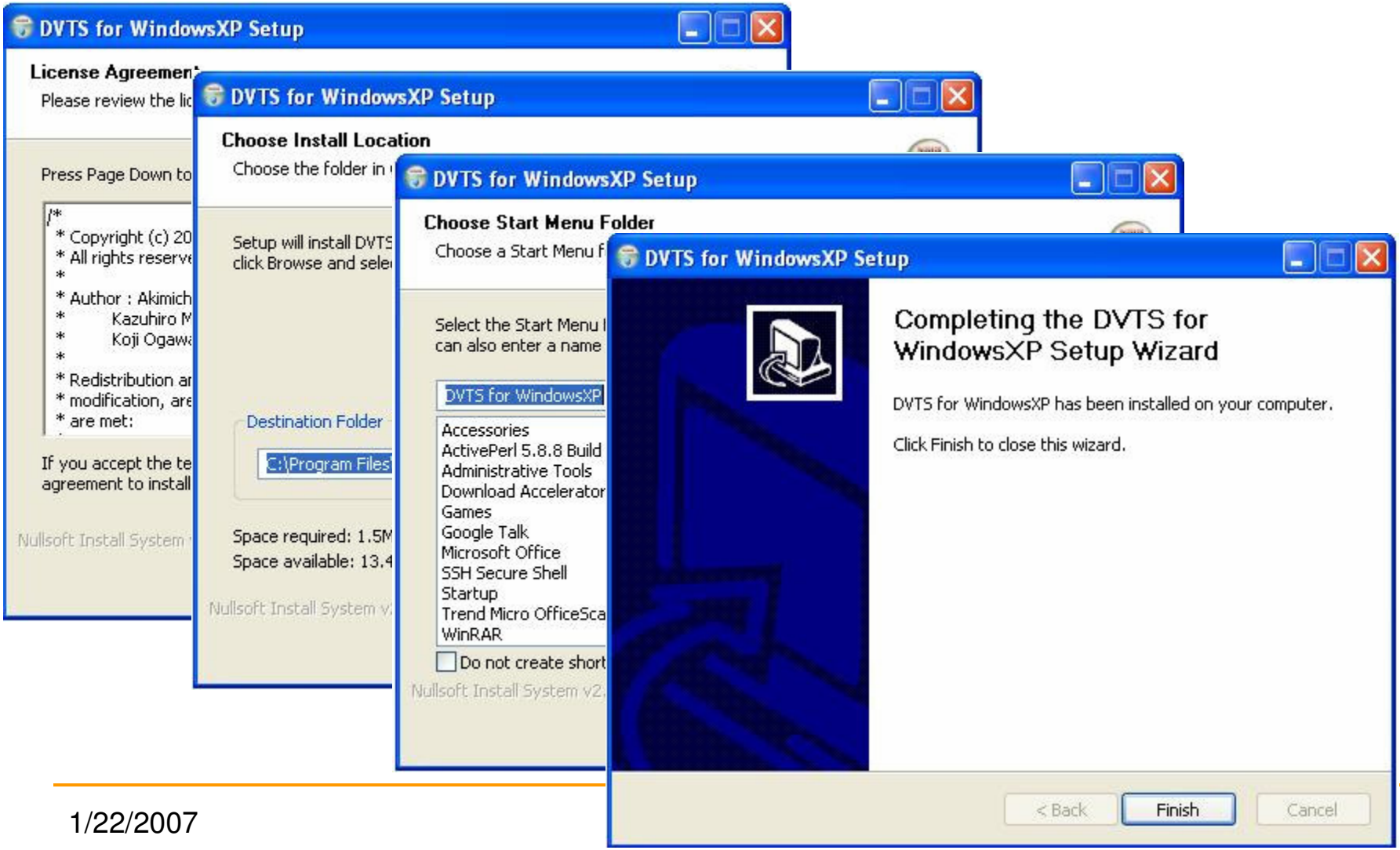
Agenda

- Install DVTS
  - For Windows
  - For Linux (we are using Fedora Core)
- Install DVRELAY
  - For Linux Only
  - dvrelay0.1f
  - dvrelay0.1m
- Using DVRELAY
- Using VClass DVTS Simulator & Mobile VClass

Install DVTS for Windows

- Get the source
  - http://www.sfc.wide.ad.jp/DVTS/software/win2000/setup-0.0.2-1.exe
  - Run the installer pr

Install DVTS for Windows



DVTS for Linux - Requirements

- Need Linux Kernel Source installed
  - kernel-2.6.11-1.1369_FC4.src.rpm
  - # rpm -Uvh kernel-2.6.11-1.1369_FC4.src.rpm
  - # cd /usr/src/redhat/SPECS/
  - # rpmbuild -bp --target $(uname -m) kernel-2.6.spec
  - # cd /usr/src/
  - # ln -s /usr/src/redhat/BUILD/kernel-2.6.18/linux-2.6.18.i686 /usr/src/linux

DVTS for Linux - Requirements

- libraw1394 should be installed
  - http://sourceforge.net/projects/libraw1394
  - # tar zxvf libraw1394-1.2.1.tar.gz
  - # cd libraw1394-1.2.1
  - # ./configure
  - # make
  - # make install
  - # make dev

Install DVTS for Linux

- Get the source
  - http://www.sfc.wide.ad.jp/DVTS/software/dvts1.0e.tar.bz2
  - tar jxvf dvts1.0e.tar.bz2
  - cd dvts1.0e
  - ./configure
  - make
  - make install

DVRelay for Linux

- dvrelay with frame reduction
  - dvrelay0.1c.tar.gz
- dvrelay with motion detection and frame reduction
- dvrelay with frame reduction and CBR
  - dvrelay0.1f.tar.gz
- dvrelay with frame reduction + motion detection + CBR
  - Merging is on the process

DVRelay for Linux – Requirements

- Install libraw1394
- Install libdv
  - http://sourceforge.net/projects/libdv/
  - libdv-1.0.0.tar.gz
  - tar zxvf libdv-1.0.0.tar.gz
  - ./configure
  - make
  - make install
- Install libdv-devel
  - yum install libdv-devel

Install DVRelay

- Get the source of dvrelay (dvrelay0.1f.tar.gz)
- tar zxvf dvrelay0.1f.tar.gz
- cd dvrelay0.1f
- ./configure
- make
- make install

Some Errors

```
[root@localhost dvts1.0e]# make
Making all in dvsend
make[1]: Entering directory `/root/dvts/dvts1.0e/dvsend'
source='main.c' object='main.o' libtool=no \
        depfile='.deps/main.Po' tmpdepfile='.deps/main.TPo' \
        depmode=gcc3 /bin/sh ../depcomp \
        gcc -DHAVE_CONFIG_H -I. -I. -I../include -I/usr/src/linux/drivers/ieee1394/    -
      DLINUX -DNO_SS_LEN -DINET6 -g -O2 -Wall -c `test -f main.c || echo './'`main.c
In file included from param.h:4,
                 from main.c:56:
ieee1394-struct.h:39:32: error: libraw1394/raw1394.h: No such file or directory
ieee1394-struct.h:40:28: error: libraw1394/csr.h: No such file or directory
main.c: In function ‘main’:
main.c:281: warning: implicit declaration of function ‘set_signal_behavior’
make[1]: *** [main.o] Error 1
make[1]: Leaving directory `/root/dvts/dvts1.0e/dvsend'
make: *** [all-recursive] Error 1
```

How to use DVRelay (options)

- -H: show help message
- -v: show version number
- -4: use IPv4 (default is IPv6)
- -h <host IP>: sent to host IP
- -j <group address>: join multicast address
- -M ifname: multicast join interface
- -t ttl: TTL for multicast
- -P port: RTP port number
- -p: use PAL

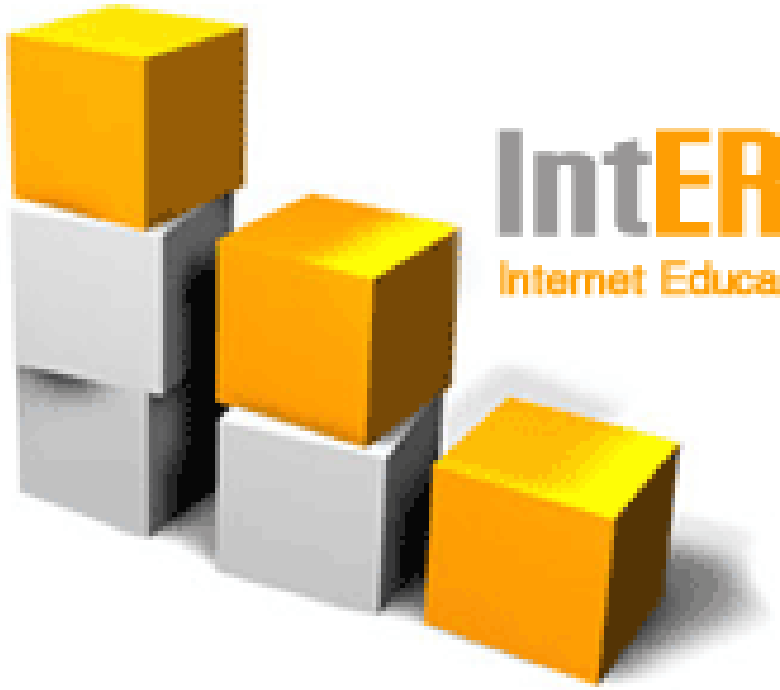
How to use DVRelay (options)

- -L: show packet loss
- -C: use CBR queue for forwarding packets
- -a: use motion detection
- -f rate: send full frame by 30/rate frame/sec
- -s number: number of DIF blocks included in one packet

Examples

- dvrelay -4 –j 224.1.1.1 –h 225.1.1.1 –L –C
- dvrelay –j ff38:20:2001:0d30:101:1:1:1 –h ff38:20:2001:0d30:101:1:1:2 –L –C


A
B
dvrelay



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Thank You