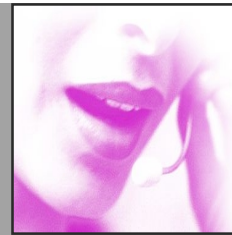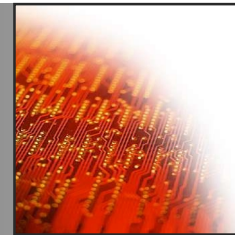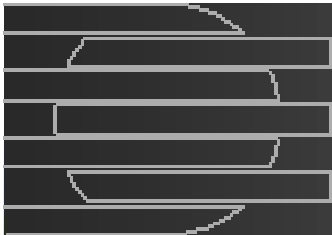# NEARTEK presentation

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Migration made easier

Neartek Inc.

Software Editor

Head Office: Neartek Inc. (Lakeville, USA)

Europe Office: Villebon-sur-Yvette, France

Employees: 150

Main activities:

- ❑ Virtual storage product-line (VSEngine) 8 years
- ❑ Migration product line (AMXW) 10 years
- ❑ Professional services 5 years

Neartek in Numbers

R&D locations France

- ❑ Fontenay-le-Fleury: VSEngine, Serverless backup

- ❑ Villebon-sur-Yvette: AMXW product line

Installations

Over 80 VSEngines worldwide

Over 250 machines running AMXW worldwide

Neartek Partners

For virtual storage solutions

IBM, UNISYS, AMDAHL,
STORAGETEK, ADIC, ATL, EXABYTE
CROSSROADS

For HP3000 migrations

HP, ORDAT, OPENSEAS, DENKART, UNILOG, ARES, CIRIL,
DATASTREAM, LUND, TJ-SYSTEMS, MB FOSTER

Environments AMXW migrates

❑ ## Applications

Databases:	IMAGE/TURBOIMAGE, ALLBASE
Files:	SEQUENTIALS, MESSAGE, KSAM, SPOOL
Programs:	COBOL, FORTRAN*, SPL, C, PASCAL*
Screens:	VPLUS
System calls:	Intrinsics
JCL:	COMMANDS, UDC
Utilities:	SORT/MERGE, FCOPY, KSAMUTIL

- *HP-UX

AMXW Compatibility

❑ Target environments

UNIX
HP-UX

Linux RedHat

WINDOWS
NT4

Neartek Partners

❑ Multi-Target Relational Database

❑ **ORACLE**

ORACLE®

❑ **HP ELOQUENCE**
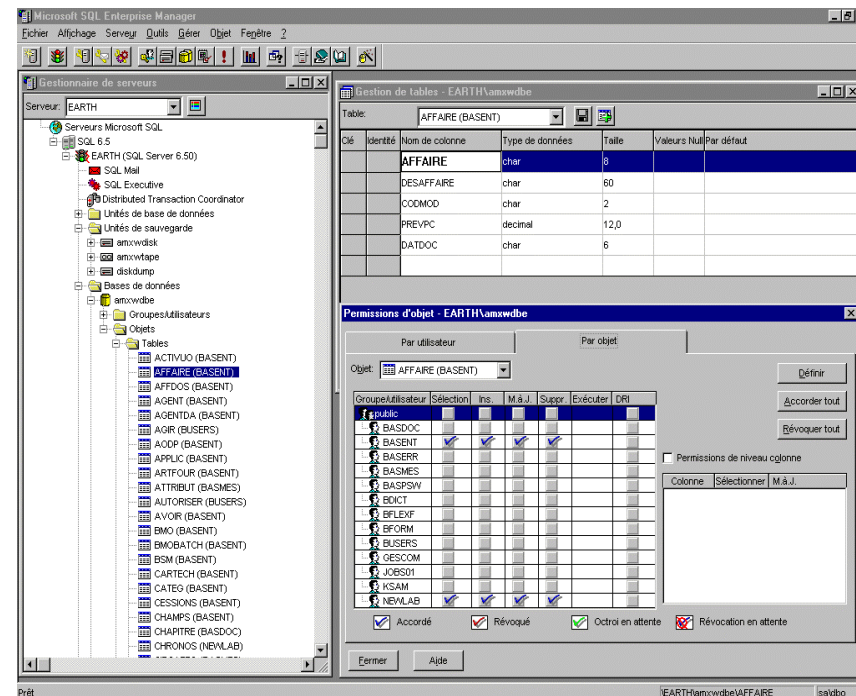
Neartek Partners

❑ **MICROSOFT SQL SERVER**

❑ **INFORMIX, INGRES SYBASE**

Automated generation of relational database schemas
❑ **Able to transparently normalize against programs**
❑ **Source data unload/reload**
❑ **Able to change KSAM (indexed) fields to database tables**
❑ **Just relink and modify a variable environment to change the relational database**
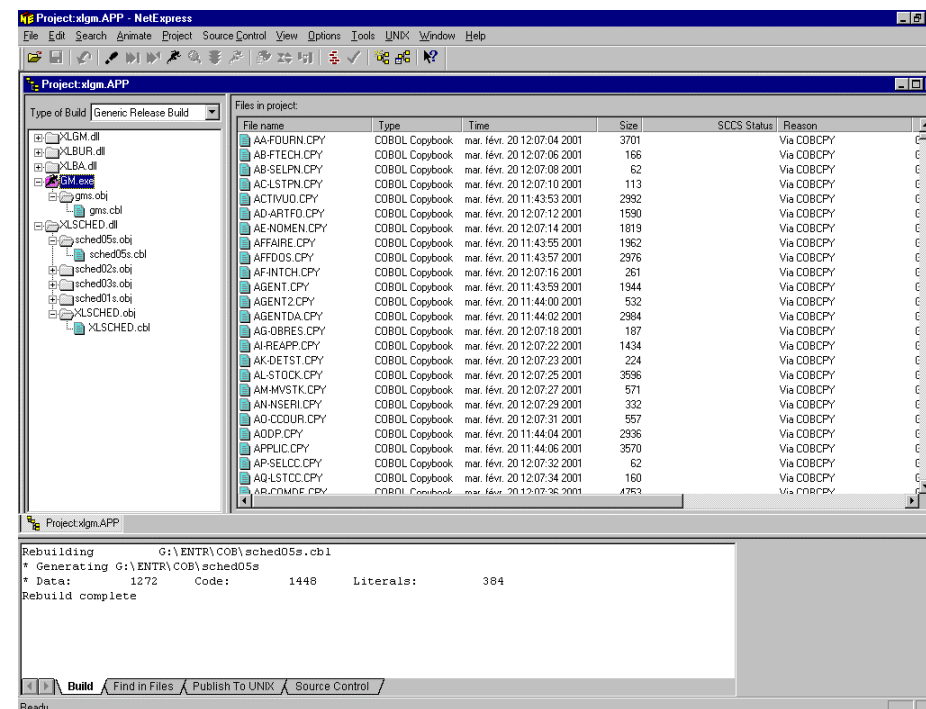
Neartek Partners

❑ A recognized multi-computer compiler

    ❑ **MICROFOCUS COBOL***

    ❑ **MICROFOCUS NETEXPRESS****
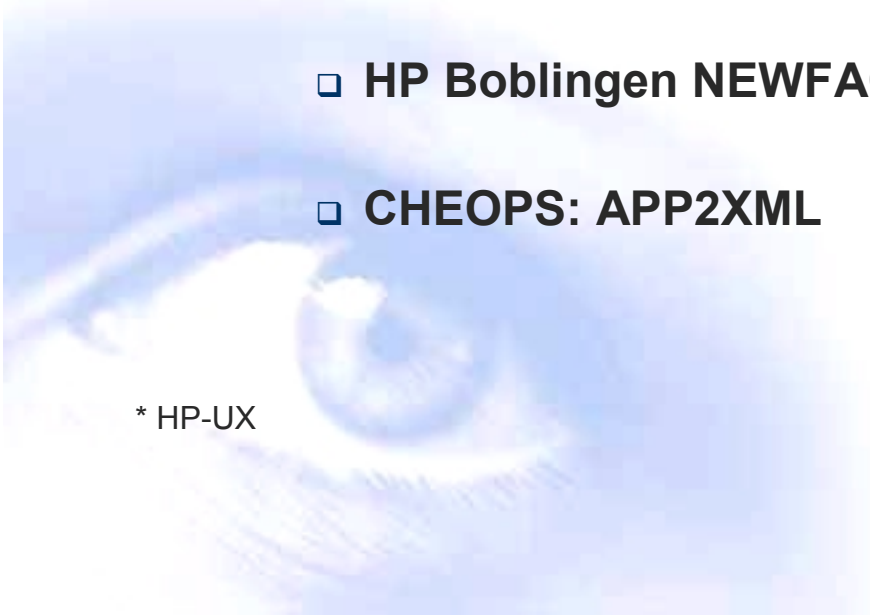
MICRO FOCUS

* All Unix/Linux computers

**Windows NT

Neartek Partners

❑ Screen interfaces integrated by well-known companies

  ❑ **Ordina Denkart: edWin/3K**

  ❑ **HP Boblingen NEWFACE: Windows-like***

  ❑ **CHEOPS: APP2XML**

* HP-UX

AMXW Simplicity

❑ Most system calls (intrinsics) developed with common parameters

- ❑ **IMAGE** *(Dbbegin, Dbclose, Dbdelete, Dbend, Dberror, Dbexplain, Dbfind, Dbget, Dbinfo, Dblock, Dbopen, Dbput, Dbunlock, Dbupdate)*
- ❑ **KSAM** *(Ckclose, Ckdelete, Ckerror, Cklock, Ckopen, Ckopenshr, Ckread, Ckreadbykey, Ckrewrite, Ckstart, Ckunlock, Ckwrite)*
- ❑ **FILES** *(Fcheck, Fclose, Fcontrol, Fdelete, Ferrmsg, Ffileinfo, Fgetinfo, Flock, Fopen, Fpoint, Fread, Freadbackward, Freaddir, Freadlabel, Freadseek, Frename, Fsetmode, Fspace, Funlock, Fupdate, Fwrite, Fwritedir, Fwritelabel, Genmessage, Iodontwait, Iowait, Print, Printfileinfo, Read, Readx)*
- ❑ **PROCESS** *(Activate, Create, Createprocess, Father, Getprocid, Getprocinfo, Kill, Quit, Suspend, Terminate)*
- ❑ **COMMANDS** *(Command, Hpcicommand, Mycommand)*

AMXW Simplicity

❏ Most system calls (intrinsics) developed with common parameters

❏ **RESOURCES** *(Dmovin, Dmovout, Freedseg, Mail, Receivemail, Sendmail, Freelocrin, Getlocrin, Locklocrin)*

❏ **ENVIRONMENT** *(Findjcw, Getjcw,Hpcigetvar, Hpciputvar, Putjcw, Setjcw)*

❏ **OTHERS** *(Ascii, Binary, Calendar, Clock, Ctranslate, Dascii, Dateline, Dbinary, Fmtcalendar, Fmtclock, Fmtdate, Pause, Printop, Printopreply, Proctime, Search, Who)*

❏ **Presentation:** shared libraries (Unix/Linux) or dll (Windows)

❏ **Performances:** written in C. Some tests (Pitney Bowes) show our Oracle database calls are 3 times faster than those rewritten using sql

❏ **Debug:** intrinsic calls can be logged depending on the variable environment

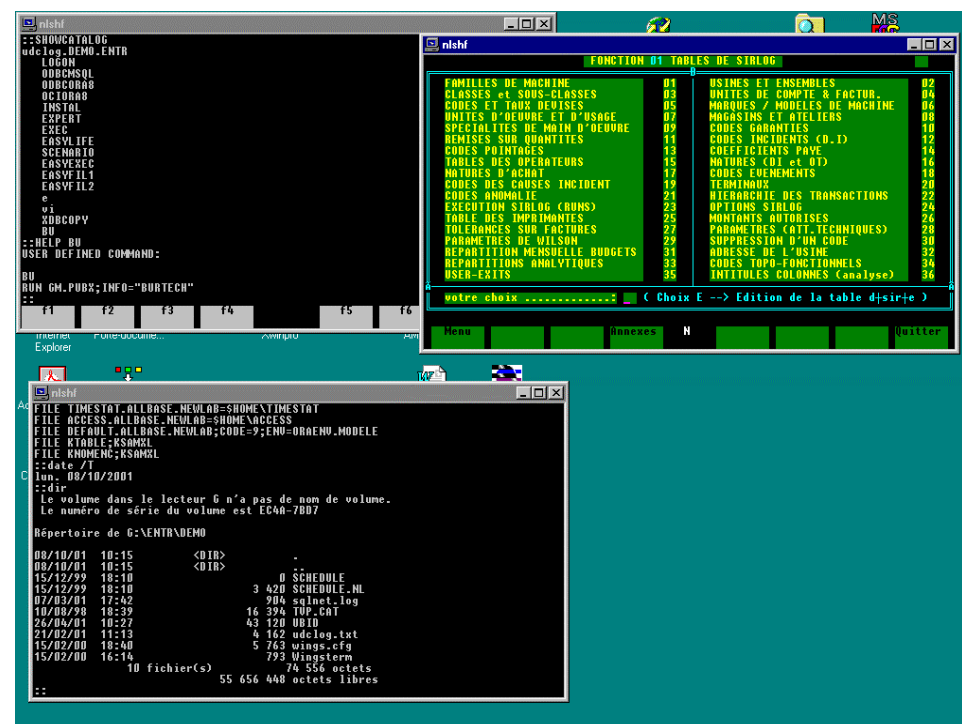❏ **Versatility:** Neartek can develop any new intrinsic or option that is not currently ported

AMXW Simplicity

❑ Most CI commands developed with common parameters

   ❑ **FILES FILES** *(Build, File, Listf, Listftemp, Purge, Rename, Reset, Save)*
   ❑ **PROCESS** *(Run)*
   ❑ **BATCH/SESSIONS** *(Stream, Job, Showjob)*
   ❑ **ENVIRONMENT** *(Setjcw, Setvar,Listf, Listftemp, Purge, Rename, Reset, Save,Showjcw)*
   ❑ **CI/UDCS** *(CommandFiles, Continue, Else, Endif, Eod, Eoj, Help, If, Recall, Reply, Showcatalog, Tellop)*
   ❑ **OTHERS** *(Comment, Listacct, Listgroup)*

   ❑ **Transparency:** JCLs from jobs are translated with a few modifications because these commands are interpreted with a special shell named 'nlsh'
   ❑ **Opening:** The 'nlsh' shell is not only able to execute native commands from HP3000, but also commands from the target OS (including command files)
   ❑ **Extensions:** the print commands have a 'user exit' making it possible to call a shell script from the print command (you can write the file to a CD-ROM, to send it via email, printing it, etc.) With Unix or Linux (Linux Is Not UniX), every command from these OS's has these native possibilities.
   ❑ **Versatility:** Neartek can develop any new command or option that is not currently ported

AMXW Flexibility

❏ Multi-computer/Multi-version

❏ **Multiple HP3000 computers can be simulated on a single target computer**
<u>**NLROOTDIR:**</u> variable environment
that specifies the absolute pathname of any
equivalent HP3000 computer.

❏ **Multiple AMXW versions can be tested on a single target computer.**

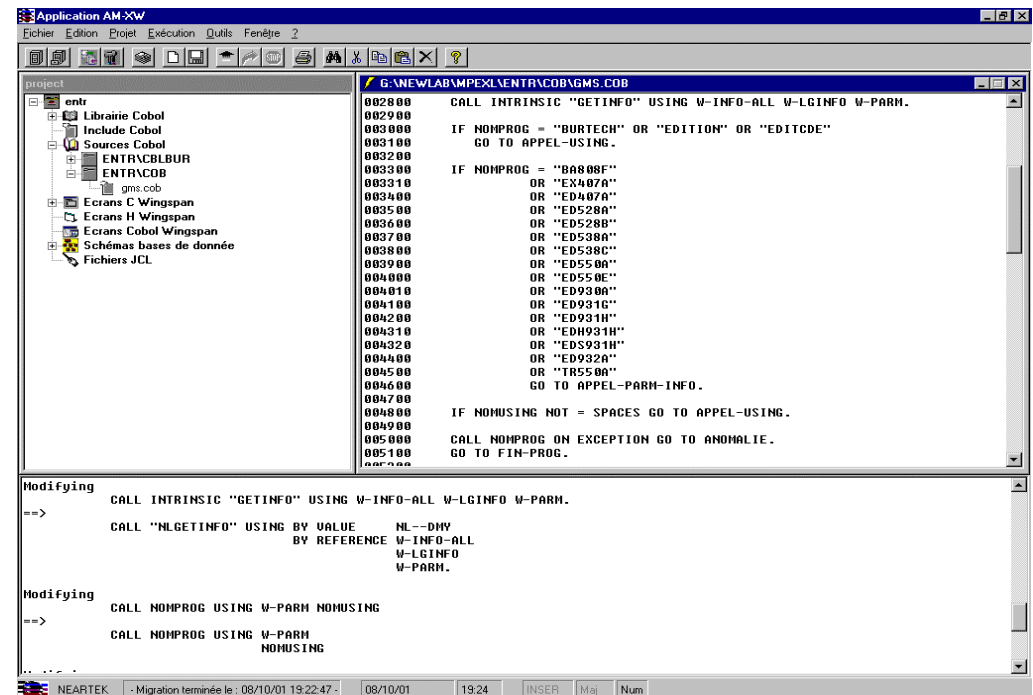❏ **Multiple migrated software versions can be tested on a single target computer.**

AMXW Adaptable Interfacing

❑ Migration tools

  ❑ **Under Windows NT4
    (does not need the target
    computer during
    migration)
    Graphical interface.**

  ❑ **Under Unix
    Command line interface**

AMXW Success

❑ References

❑ **ISVs (software editors)**

ARES, CIRIL, DATASTREAM, EDS-GFI, IMPULSION, ORDAT, RCS, TJ-SYSTEMS, UNILOG, eBOOTIS (March 2002)

❑ **Companies that migrated their own sources:**

PITNEY BOWLES, TEFAL

❑ **Customers using AMXW**

ALEXANDER BINZEL GMBH, AUTOPRATIC, BRODARD GRAPHIQUES, BROSE, BUZIL, BVA, CGEP, CHAPELLE DARBLAY, COHLINE, DALIM, DETIA, DHW, DOLE, DUNLOP, EHLEBRACHT, EMIG GMBH & Co, EOSA, FRANCELOG, GTI, HELIO-CORBEIL, HAL, HELLA, HETTICH, HUTTENES ALBERTUS GmbH, ICI, IMSS, IMV, INOTECH, INOPLAST, KRUPP AUTOMOTIVE SYSTEMS GMBH, LA ROCHETTE-VENIZEL, LEMM, LUXOPLAST, MONTAVIT, NASCO, OTOR, PAD, PIAZZA, QUATP, RADSYSTEM GMBH, SACRED, SAS, SAXONIA, SCHI, SEB, SECURIT ST GOBAIN, SOPELEM, TJ SYSTEMS, VALOUREK, VAMAV, VENTREX, WALTER MADER AG, WERKSTOFF, WOESTE, ZALTECH, ZEIT,...