



User Interface Migration



Speaker name

Title

Hewlett-Packard

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Agenda

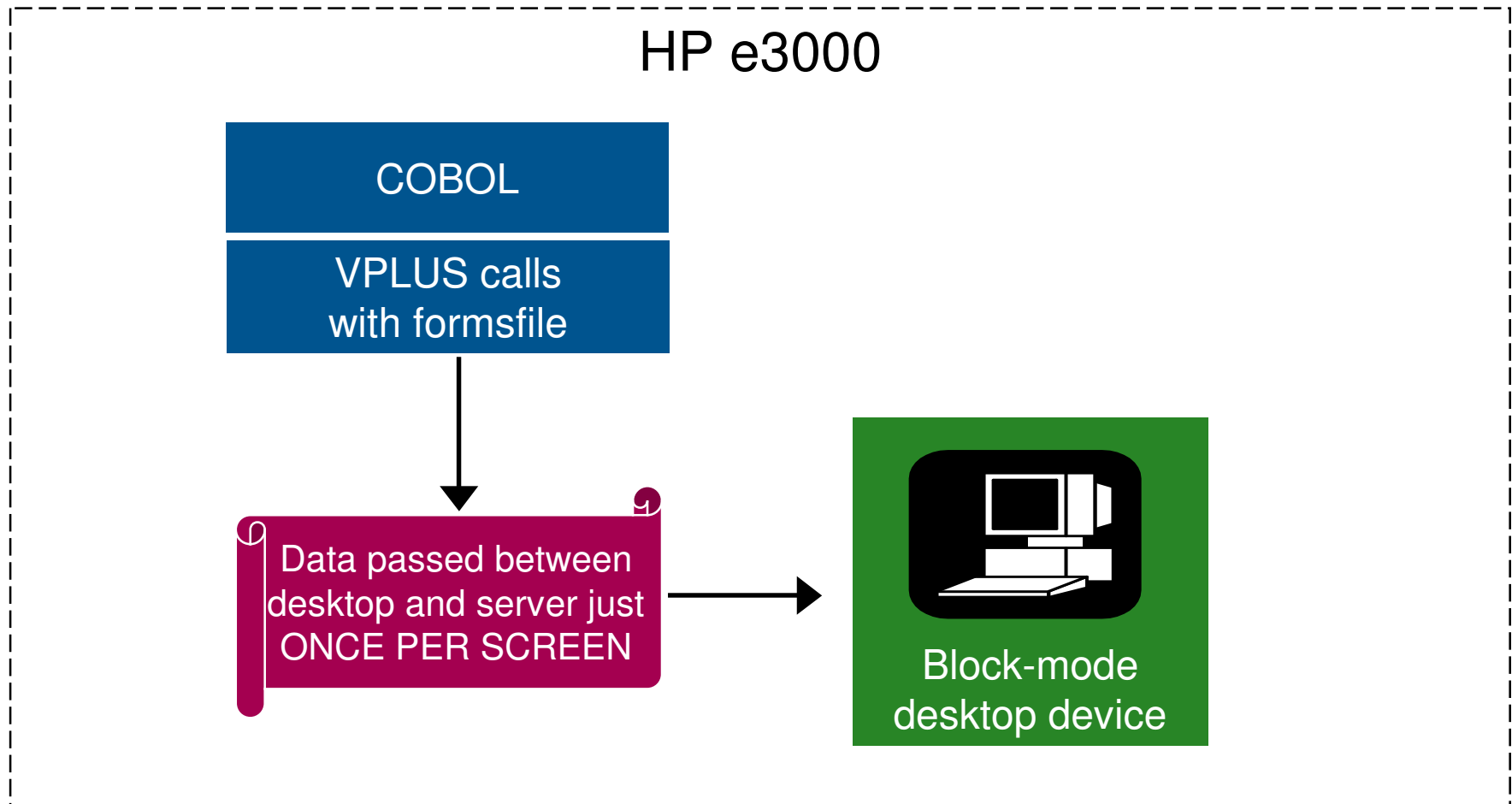
- Understanding VPLUS
- VPLUS replacement options recommended by platinum partners
- Other replacement solutions
- Q&A

Understanding VPLUS

VPLUS forms

- VPLUS does not exist on other platforms
- Forms must be converted to another format compatible with the new compiler
- Intrinsic must be converted, removed, or “wrapped”

VPLUS overview



VPLUS form example

120.00.170.10 - HPtelnet.exe for HP

File Edit Connection Setup Script Window Help

CRIS HAS/SE18 SSTGA SACS/Taurus SACS/Novia HPSRC

EMPLOYEE DATABASE [10/03/02]

EMP-NO : [1001]

EMP-NAME : [chandra sekhar]

EMP-ADDR : [1/234, alloor road, bangalore]

EMP-PHNR : [5581270]

EMP-SAL : [4444]

JOB DETAILS

DESIGNATION: [software engineer]

PROJECT : []

LOCATION : []

ADD UPDATE CLEAR RETURN

17:39 HP70092 - 128.88.170.10 via TELNET Mon

Start Rec. cop. Explor. Explor. 128.88.170.10 temp3 Microsoft 12:15 PM

Understanding VPLUS intrinsics

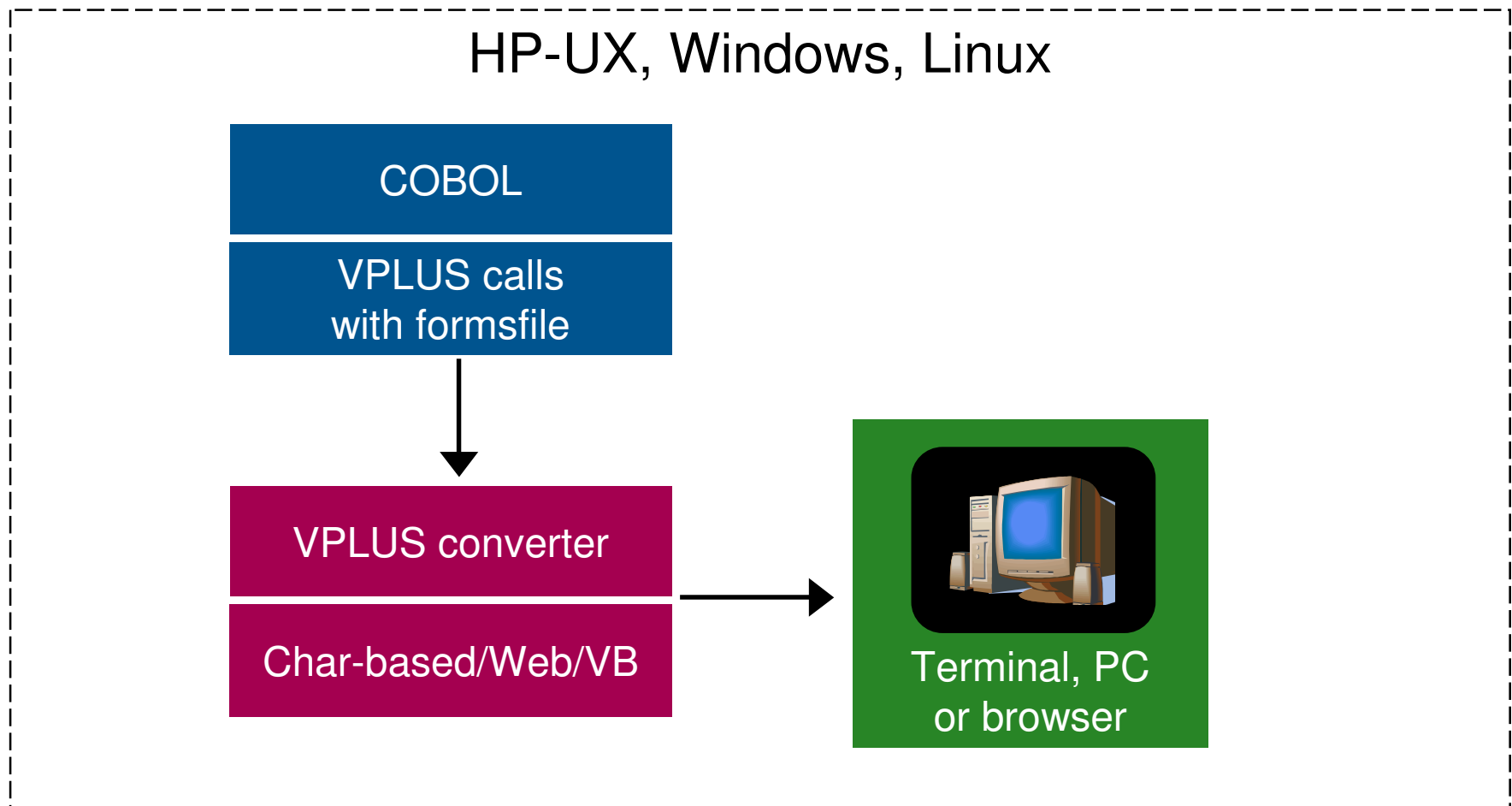
- VCHANGEFIELD
- VCLOSEBATCH
- VCLOSEFORMF
- VCLOSETERM
- VERRMSG
- VFIELDEDIT
- VFINISHFORM
- VGETBUFFER
- VGETFIELD
- VGETFIELDINFO
- VGETFILEINFO
- VGETFORMINFO
- VGETKEYLABELS
- VGETLANG
- VGETNEXTFORM
- VGETTYPE
- VINITFORM
- VLOADFORMS
- VOPENBATCH
- VOPENFORMF
- VOPENTERM
- VPLACECURSOR
- VPOSTBATCH
- VPRINTFORM
- VPRINTSCREEN
- VPUTBUFFER
- VPUTFIELD
- VPUTTYPE
- VPUTWINDOW
- VREADBATCH
- VREADFIELDS
- VSETERROR
- VSETKEYLABEL
- VSETKEYLABELS
- VSETLANG
- VSHOWFORM
- VUNLOADFORM
- VWRITEBATCH

VPLUS compilation errors with new compiler



VPLUS Intrinsic Calls	Errors or Warnings Encountered with MF
CALL "VOPENTERM" USING COMAREA FILENAME.	173 called program file not found in drive or directory - VOPENTERM
CALL "VOPENFORMF" USING COMAREA filename.	173 called program not found in drive or directory - VOPENFORMF
CALL "VGETBUFFER" USING COMAREA BUFFER-FRM1	173 called program not found in drive or directory - VGETBUFFER
CALL "VERRMSG" USING COMAREA MSGBUF MSGBUFLN ERRMSGLEN	173 called program not found in drive or directory - VERRMSG
CALL "VPUTWINDOW" USING COMAREA MSGBUF MSGBUFLN	173 called program not found in drive or directory - VPUTWINDOW
CALL "VGETNEXTFORM" USING COMAREA.	173 called program not found in drive or directory - VGETNEXTFORM
CALL "VINITFORM" USING COMAREA	173 called program not found in drive or directory - VINITFORM
CALL "VFIELDDEDITS" USING COMAREA	173 called program not found in drive or directory - VFIELDDEDITS
CALL "VSHOWFORM" USING COMAREA	173 called program not found in drive or directory - VSHOWFORM
CALL "VREADFIELDS" USING COMAREA	173 called program not found in drive or directory - VREADFIELDS
CALL "VPUTBUFFER" USING COMAREA BUFFER-FRM1	173 called program not found in drive or directory - VPUTBUFFER
CALL "VCHANGEFIELD" USING COMAREA WS-VPLUS-FIELD- SPECS	173 called program not found in drive or directory - VCHANGEFIELD
CALL "VFINISHFORM" USING COMAREA.	173 called program not found in drive or directory - VFINISHFORM
CALL "VCLOSEFORMF" USING COMAREA.	173 called program not found in drive or directory - VCLOSEFORMF
CALL "VCLOSETERM" USING COMAREA.	173 called program not found in drive or directory - VCLOSETERM

VPLUS replacement options



VPLUS GUI enhancements

HP-UX, Windows, Linux

COBOL

New interface
Web/GUI



Java, VB, etc.

VPLUS replacement solutions

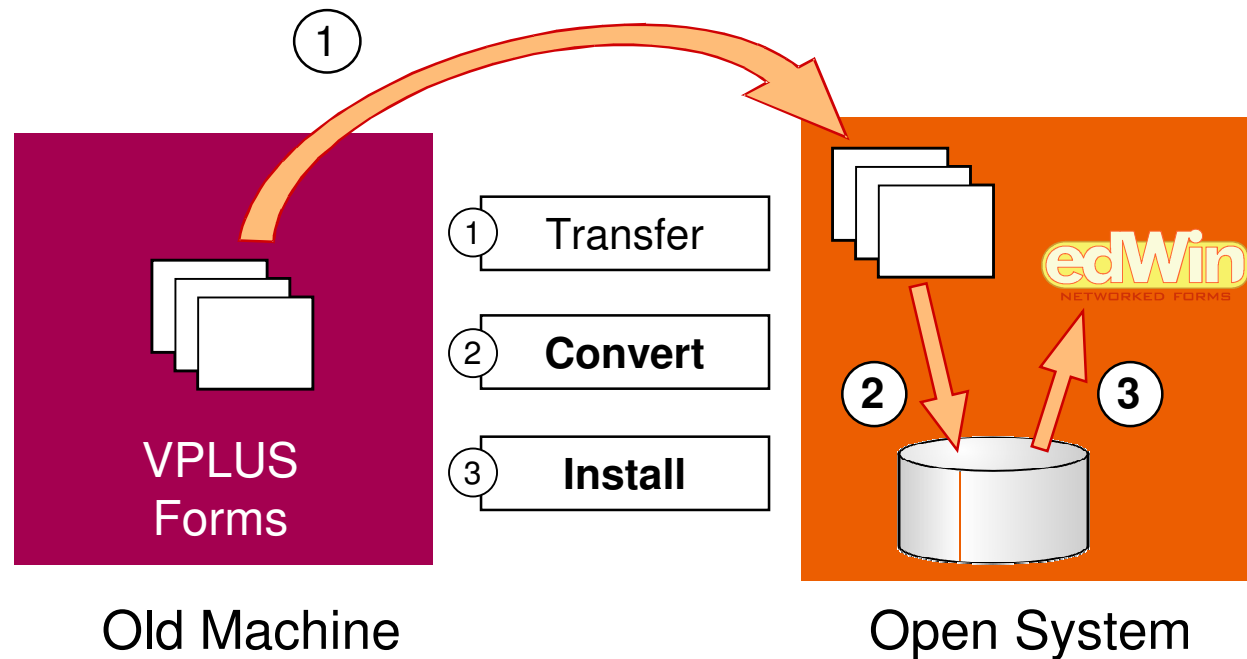
- Proven solutions known to include an automated migration tool
 - edWin/3k from Ordina-Denkart
 - LookVP from Cheops
 - ScreenJet from ScreenJet
- All solutions offer VPLUS intrinsics mapping library
 - Reduces the migration effort
 - Intrinsics calls need not be modified
- VPLUS is probably the easiest of all the 3GL application migration challenges

edWin/3K

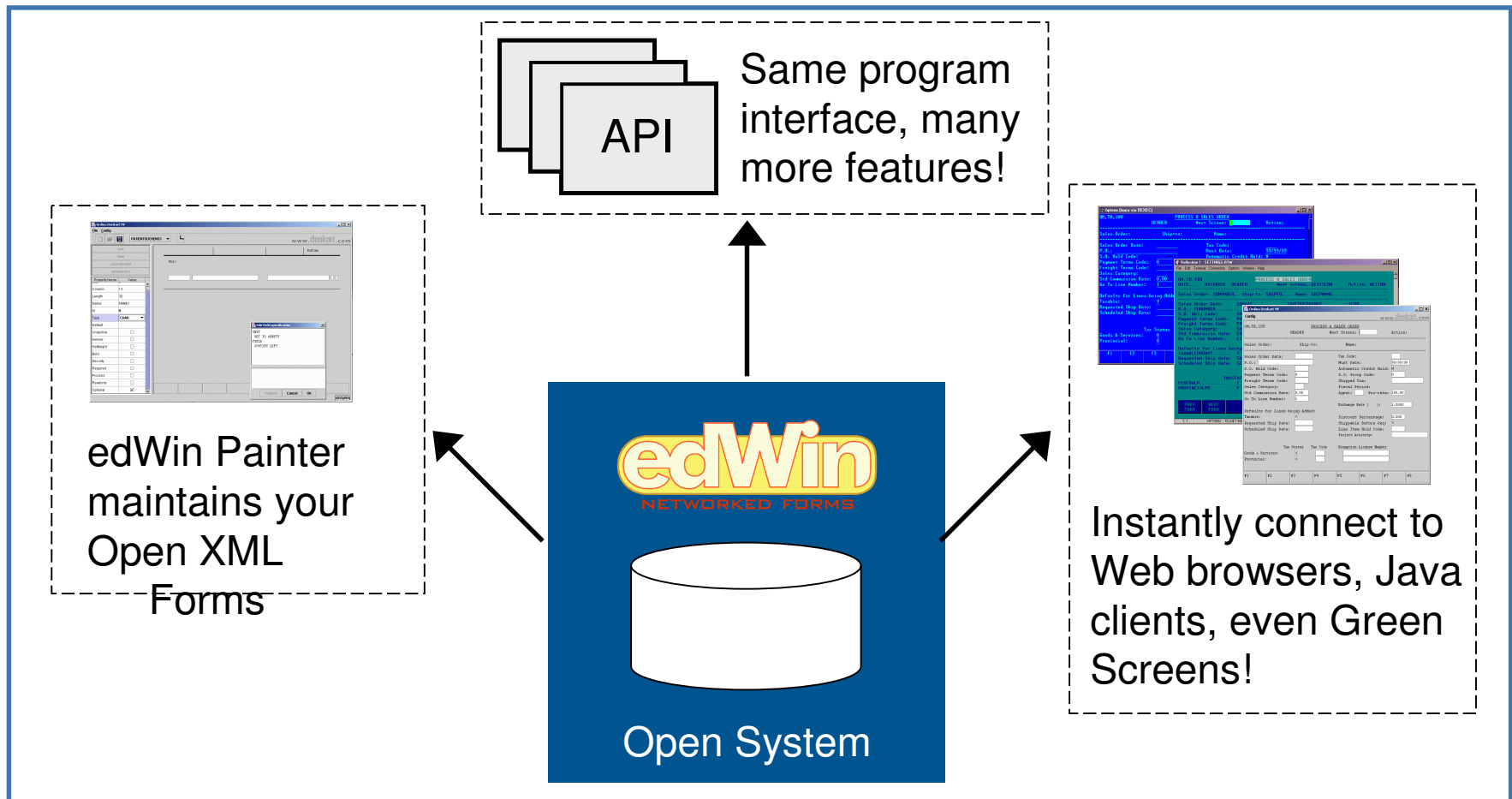
- Vendor: Ordina-Denkart (Belgium)
- Resellers: HP Platinum partners
- Quickly converts VFORM files to XML on Unix/Windows
- Supports character-based interface and GUI (Java) on Unix and Windows
- Includes VPLUS intrinsics library
 - Reduces the migration effort
 - Intrinsic calls need not be modified
- Includes GUI designer to enhance the forms
- Pricing: Based on number of developers and end-users per target server.

Migrate VPLUS in 3 simple steps

Migrates quickly and completely



After migration: You got edWin!





edWin™ benefits

edWin offers these immediate benefits:

- edWin supports all of VPLUS
- There's no need to change anything
- Screen I/O is automatically **open** and platform independent

edWin/3K™ Example A— Easy client distribution



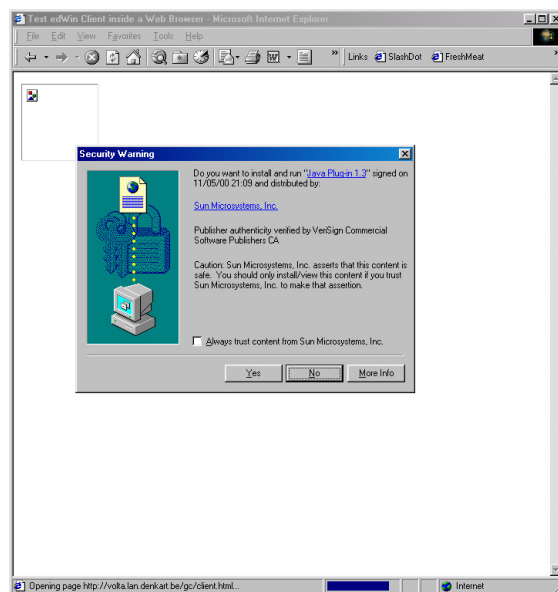
Actually, there's not much installation needed

- Web/Java interfaces are downloadable
- Browser-model irrelevant
- Wide range of supported client platforms

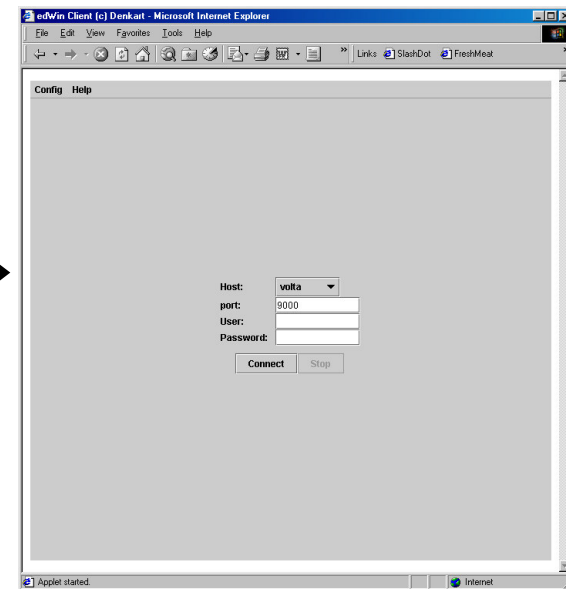
edWin/3K™ Example A— Easy client distribution (cont.)



Connect to edWin/3K application server...



Automatic
installation



...and you're ready to go!

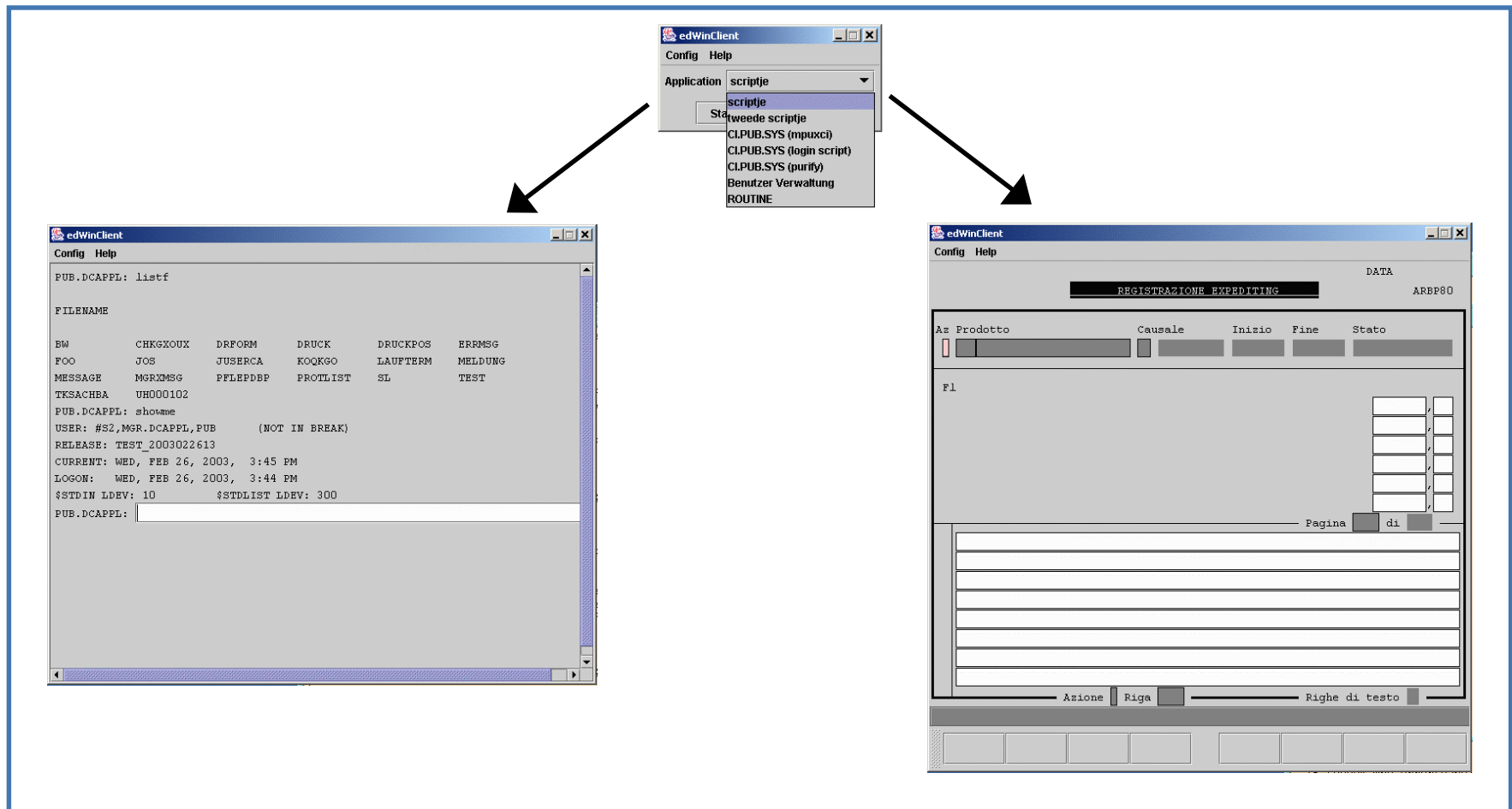
edWin/3K™ Example B— Compatibility and new features



edWin has fundamentally different architecture

- Client-server model for advanced networking
- Graphical and browser-based clients
- Nevertheless **full** forms and line-mode support
- Menu offers access to applications and even CI screens

edWin/3K™ Example B— Compatibility and new features (cont.)



ScreenJet®



ScreenJet

- Vendor: ScreenJet (United Kingdom)
- Resellers: HP Platinum partners
- Quickly converts VFORM files to AcuBench screens
- Supports thin-client AcuBench GUI (Java)
- Offers VPLUS intrinsics library
 - Reduces the migration effort
 - Intrinsic calls need not be modified
- GUI form designer is AcuBench
- Pricing: Based on one conversion kit and number of users per target server

VPLUS screen on HP 3000

HP 917.r1w - Reflection for HP

File Edit Connection Setup Macro Window Help

DEMO1 Name and Address ScreenJet

21/06/04
15:34

Title: Mr
Forename: Alan
Surname: Yeo

Job Title: CEO
Company: ScreenJet Ltd

Address: The Great Barn
Mill Street
Tewkesbury

Zip Code: GL20 5SB
Country: United Kingdom

Annual DP Budget
1 = <10K 2 = 10-100K 3 = >100K

HP 3000's 917 # 1
Model's 918 # 2

DEVELOPMENT and USER ENVIRONMENT
COBOL ☒ VPLUS ☒ Powerhouse ☒ Rapid ☒
Number of Users 8
Network user % 100 Terminal user % 0
Emulators Used WRQ ☒ ScreenJet ☒

IT Staff 5 Further Information Required ☒

Details Updated successfully

First Previous Next Clear Review Update Delete Exit

Fixed Tab
Sequence
Left-Right
Top-Bottom

VPLUS
Message
Line

Function
Key
Labels

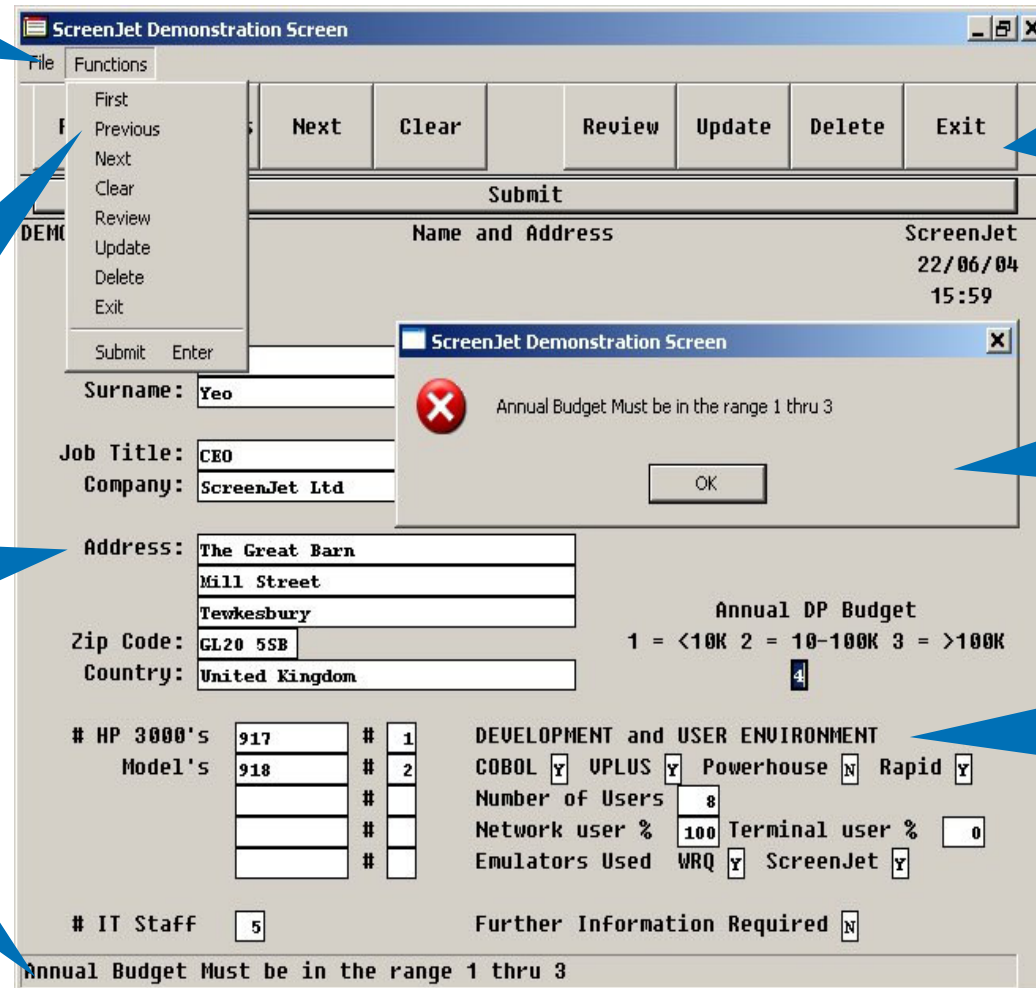
ScreenJet conversion defaults

Title from Form Description

Windows Menu generated from Function Keys, also supports app driven FKey labels

Identical Screen Layout to original Form

VPLUS Messages now in Windows Status Bar



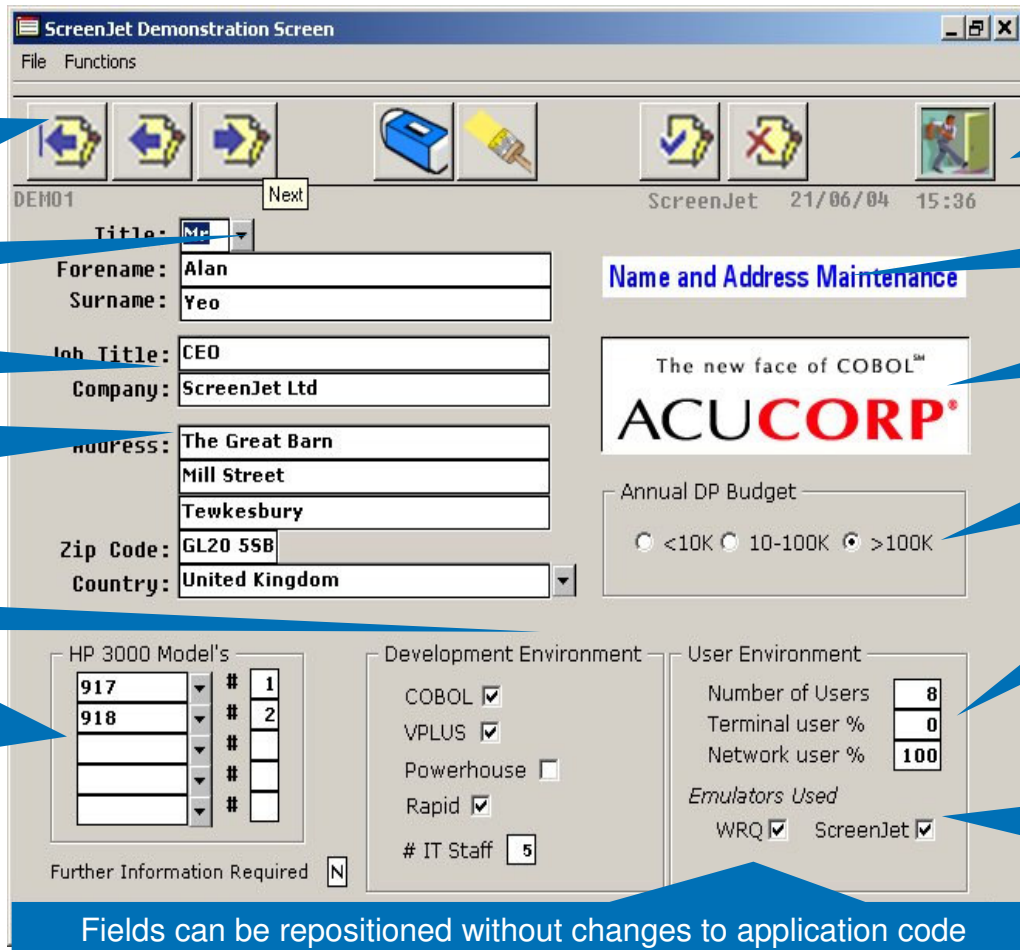
The screenshot shows a Windows-style application window titled "ScreenJet Demonstration Screen". It features a menu bar with "File" and "Functions". The "Functions" menu is open, showing options: First, Previous, Next, Clear, Review, Update, Delete, Exit, Submit, and Enter. Below the menu is a toolbar with buttons: Next, Clear, Review, Update, Delete, and Exit. The main form area contains fields for "Surname" (Yeo), "Job Title" (CEO), "Company" (ScreenJet Ltd), "Address" (The Great Barn, Mill Street, Tewkesbury), "Zip Code" (GL20 5SB), and "Country" (United Kingdom). There is also a section for "Annual DP Budget" with a legend: 1 = <10K, 2 = 10-100K, 3 = >100K. Below this is a section for "DEVELOPMENT and USER ENVIRONMENT" with checkboxes for COBOL, VPLUS, Powerhouse, and Rapid, and input fields for "Number of Users" (8), "Network user %" (100), and "Terminal user %" (0). At the bottom, there is a status bar with the text "Annual Budget Must be in the range 1 thru 3".

Function Keys on Windows Tool Bar, at bottom of screen, or omitted

Error Messages in optional Pop Up, click or CR to clear

Retains Field highlighting, cursor positioning, and tab sequence

Sample changes via AcuBench®



ScreenJet Demonstration Screen

File Functions

DEMO1

Next

ScreenJet 21/06/04 15:36

Title: ME

Forename: Alan

Surname: Yeo

Job Title: CEO

Company: ScreenJet Ltd

Address: The Great Barn
Mill Street
Tewkesbury

Zip Code: GL20 5SB

Country: United Kingdom

Name and Address Maintenance

The new face of COBOL™

ACUCORP®

Annual DP Budget

☐ <10K ☐ 10-100K ☒ >100K

HP 3000 Model's

917 # 1

918 # 2

Further Information Required N

Development Environment

COBOL ☒

VPLUS ☒

Powerhouse ☐

Rapid ☒

IT Staff 5

User Environment

Number of Users 8

Terminal user % 0

Network user % 100

Emulators Used

WRQ ☒ ScreenJet ☒

Annotations:

- Fkey Labels still available via Menu
- Fkey Labels on hover
- Change to 3D Look
- Change to Proportional fonts
- Drop Down list selection
- Change Tab Sequence for Screen & Within Frames
- Fkey Labels replaced by Icons
- Change Font and Colors
- Addition of Images
- Convert field to Radio Button
- Framed & linked Object groups
- Convert fields to Check Boxes
- Fields can be repositioned without changes to application code

All these changes were made directly in the AcuBench Screen Painter and required no changes to the application code

From 1-to-1 VPLUS migration to the “rich client”



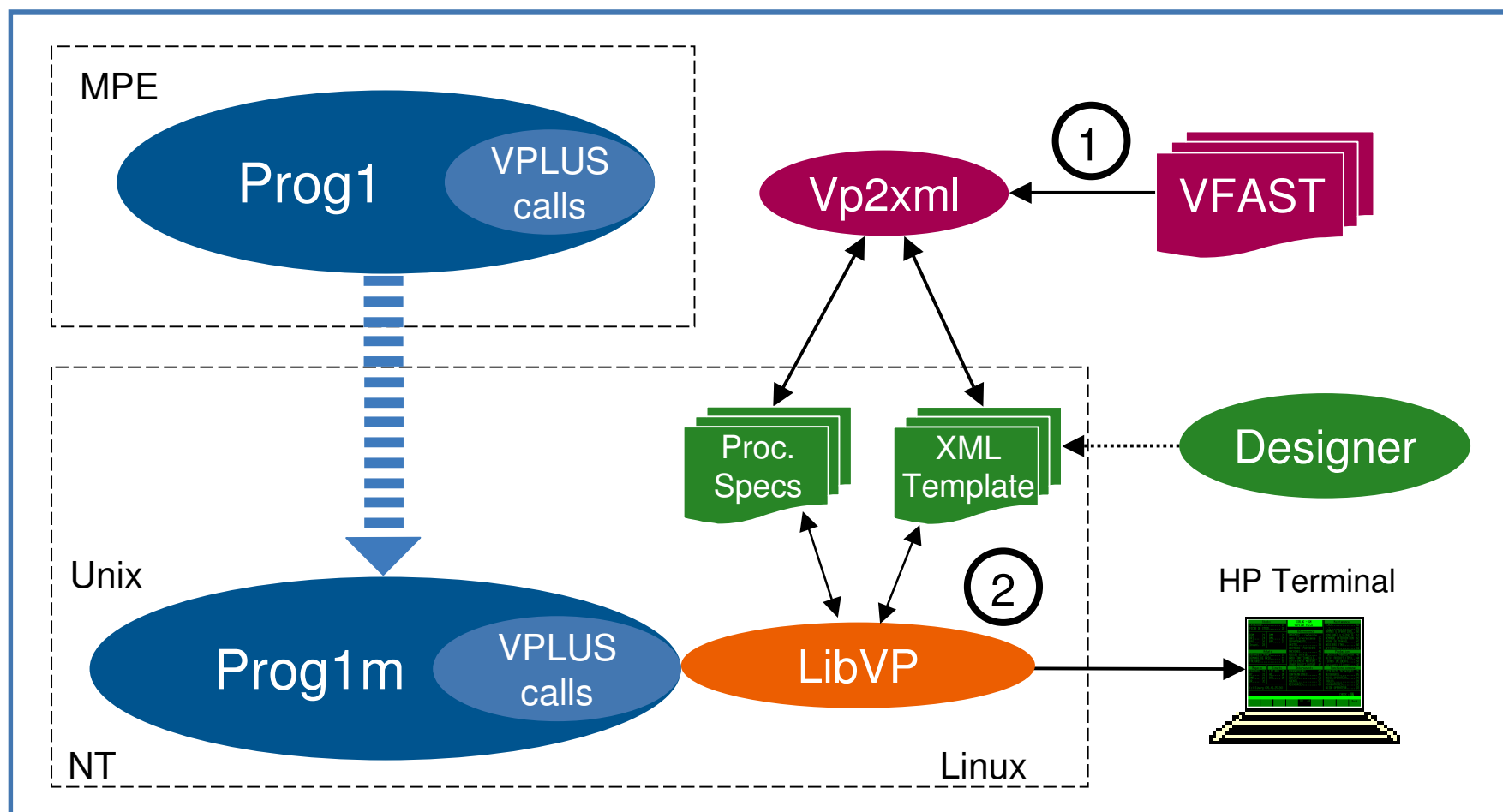
LookVP

- Vendor: Cheops (France)
- Resellers: HP Platinum partners
- Quickly converts VFAST files to XML format
- Supports Char-based, GUI (Java) and Web (HTML)
- Offers VPLUS intrinsics library
 - Reduces the migration effort
 - Intrinsic calls need not be modified
- Includes GUI designer to enhance the forms
- Pricing: Based on number of developers and end-users per target server

LookVP

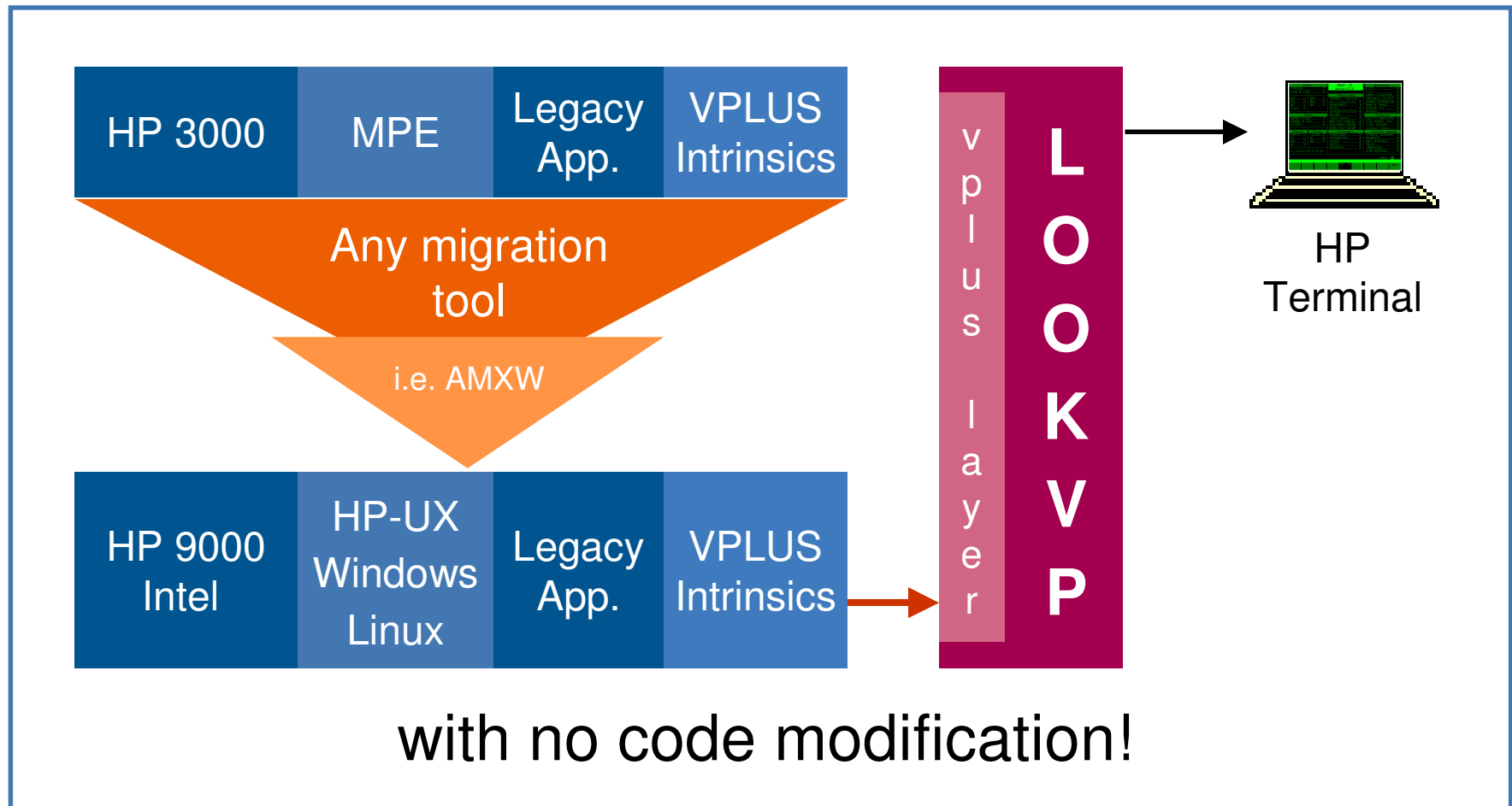
- HP block-mode
 - any HP terminal
 - any terminal emulator supporting HP protocol
- VPLUS intrinsics
 - the most currently used
 - up to 100% on demand
- Processing specifications
 - full support (init, edit, finish)
 - configuration on demand (device, light)
- Maintenance of screens
 - forms through a graphical IDE (Designer)
 - processing specifications (Spring 2004)

LookVP



LOOKVP

LookVP



VPLUS replacement

Other solutions

- Legacy J's ViewJ for PerCobol
- Sungard BI-Tech's XFORM
- Transoft's Intelligent Adapters
- Advanced Network Systems' VPLUS adapters
- Robust Systems' VB-VIEW
- eXegeSys' client



Q&A

Thank you





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