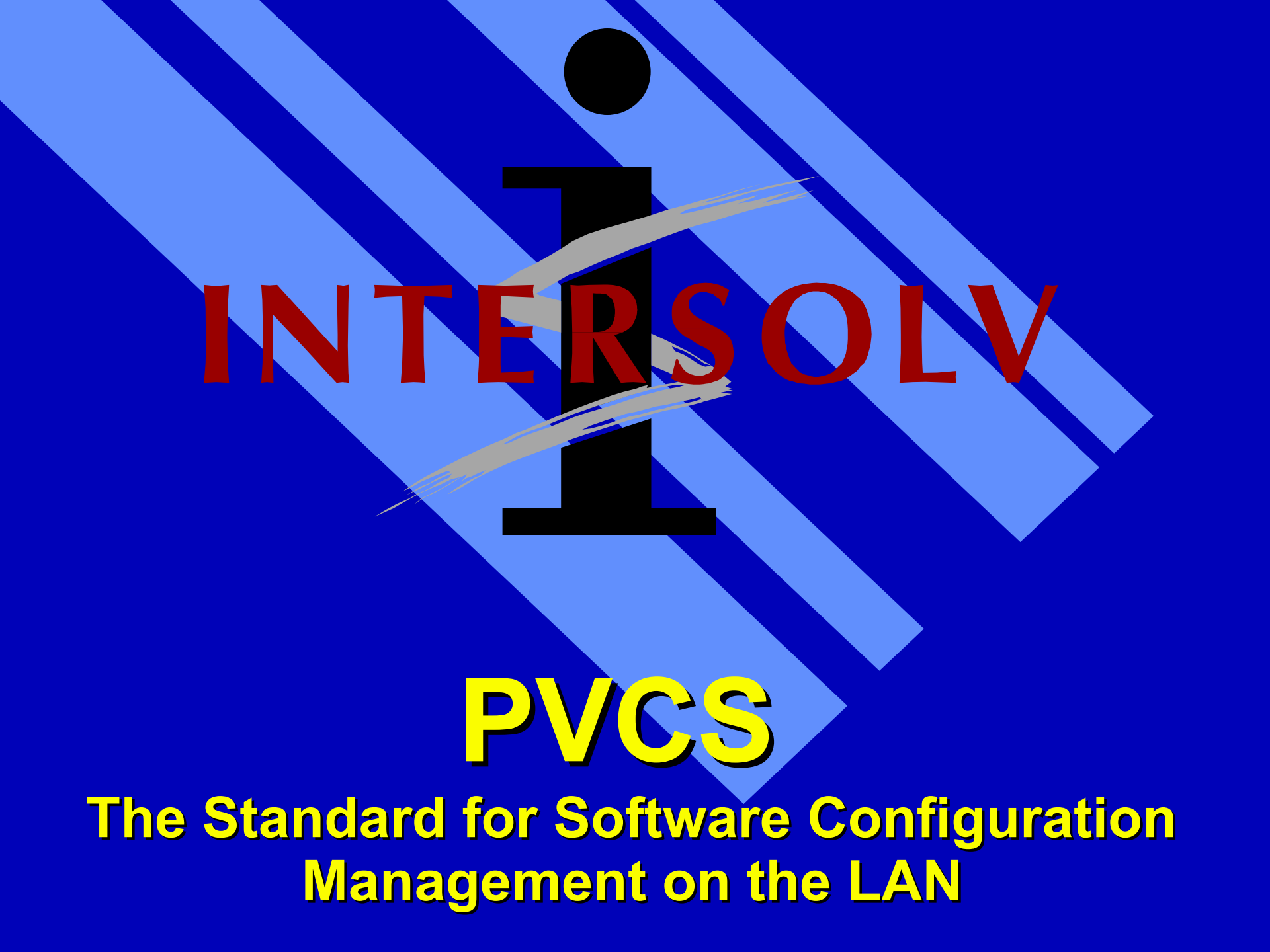
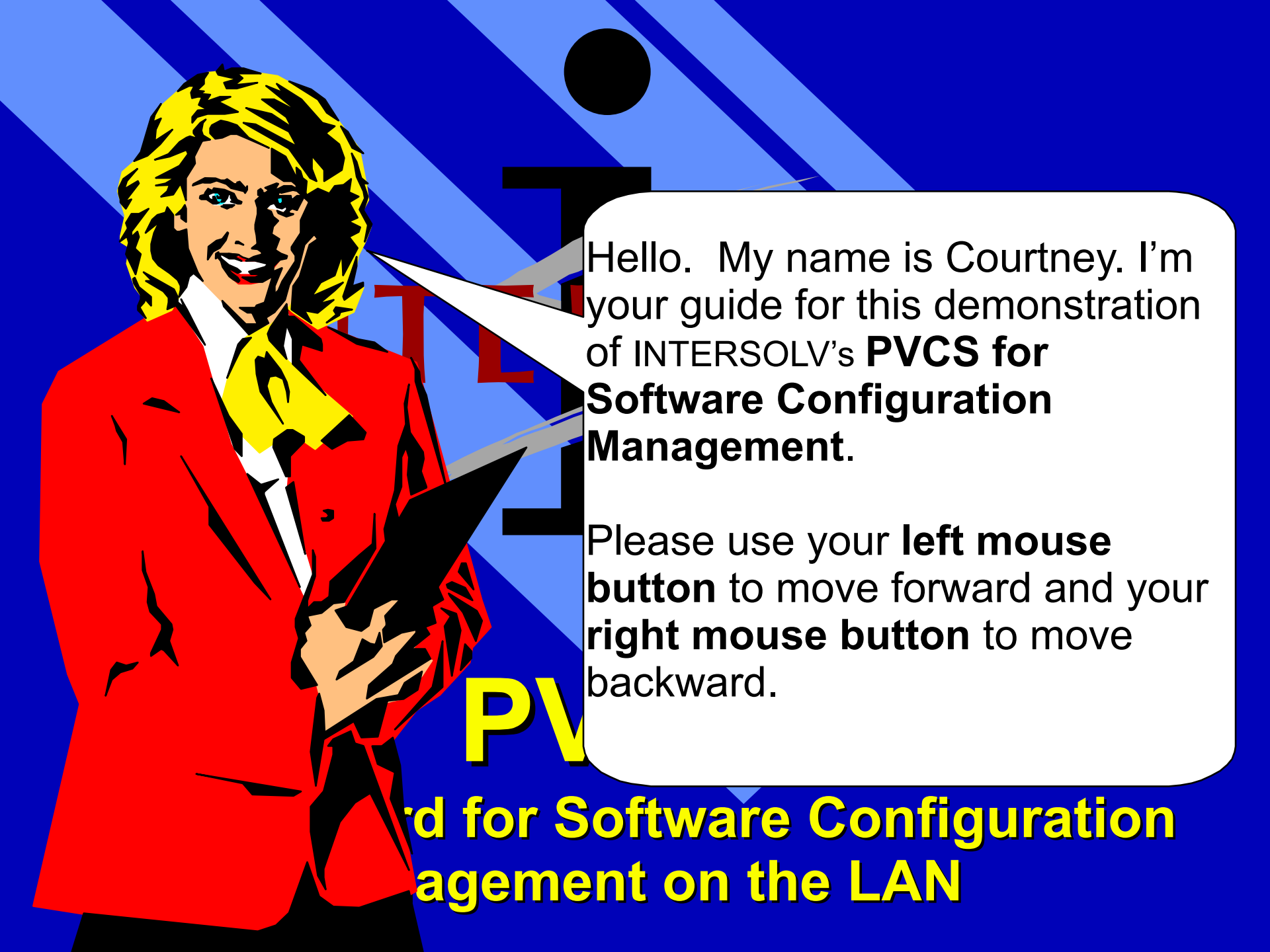


PVCS

The Standard for Software Configuration Management on the LAN


Hello. My name is Courtney. I'm your guide for this demonstration of INTERSOLV's **PVCS for Software Configuration Management**.
Please use your **left mouse button** to move forward and your **right mouse button** to move backward.
PV
d for Software Configuration
agement on the LAN

Is this happening to you?

Is this happening to you?

We have to coordinate development across 3 operating systems at 6 physical sites!

We're late because we can't share our work.

Is this happening to you?

We have to coordinate development across 3 operating systems at 6 physical sites!

We're late because we can't share our work.

Someone overwrote the fix I worked on for the last two weeks!

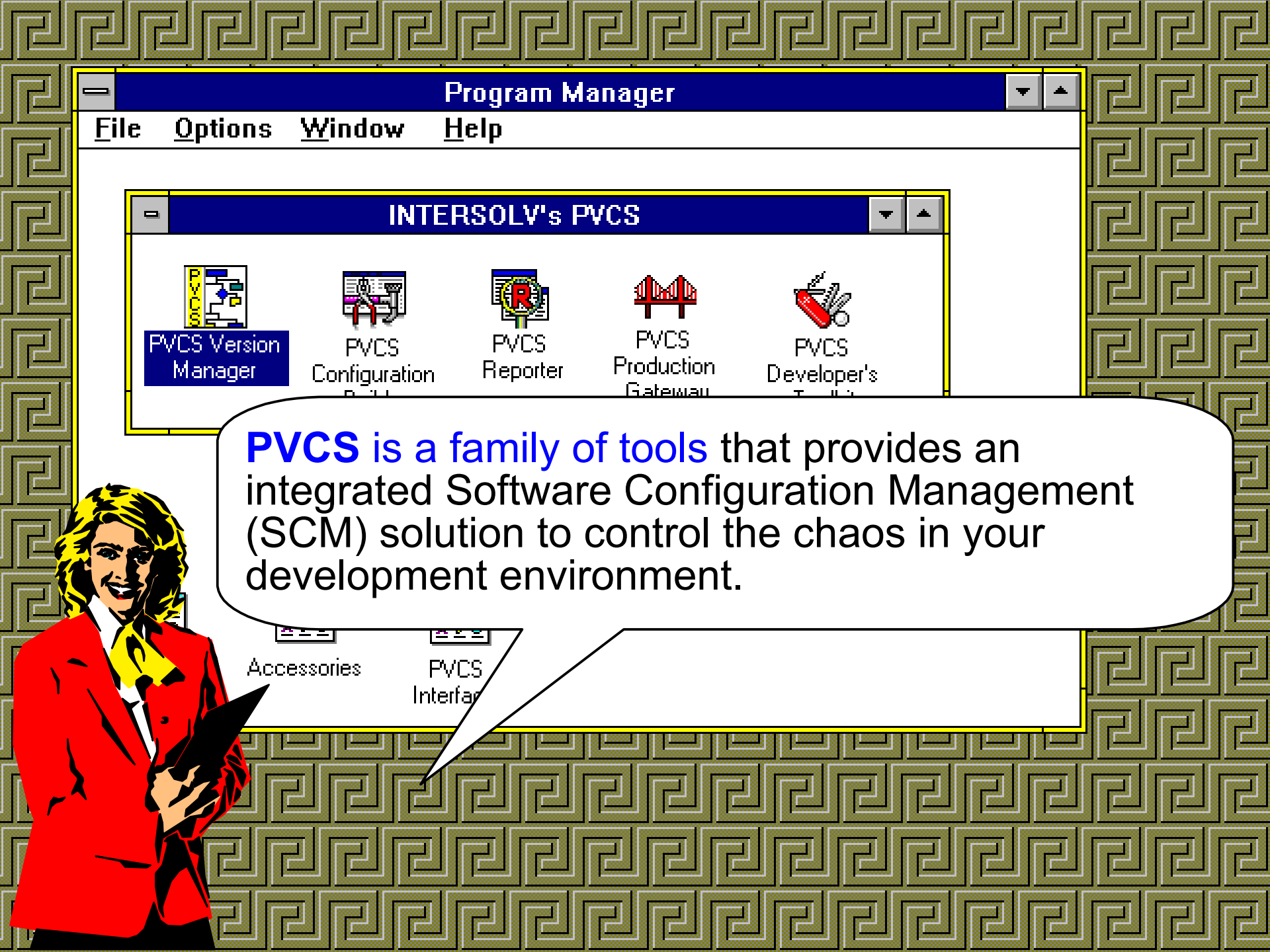
Is this happening to you?

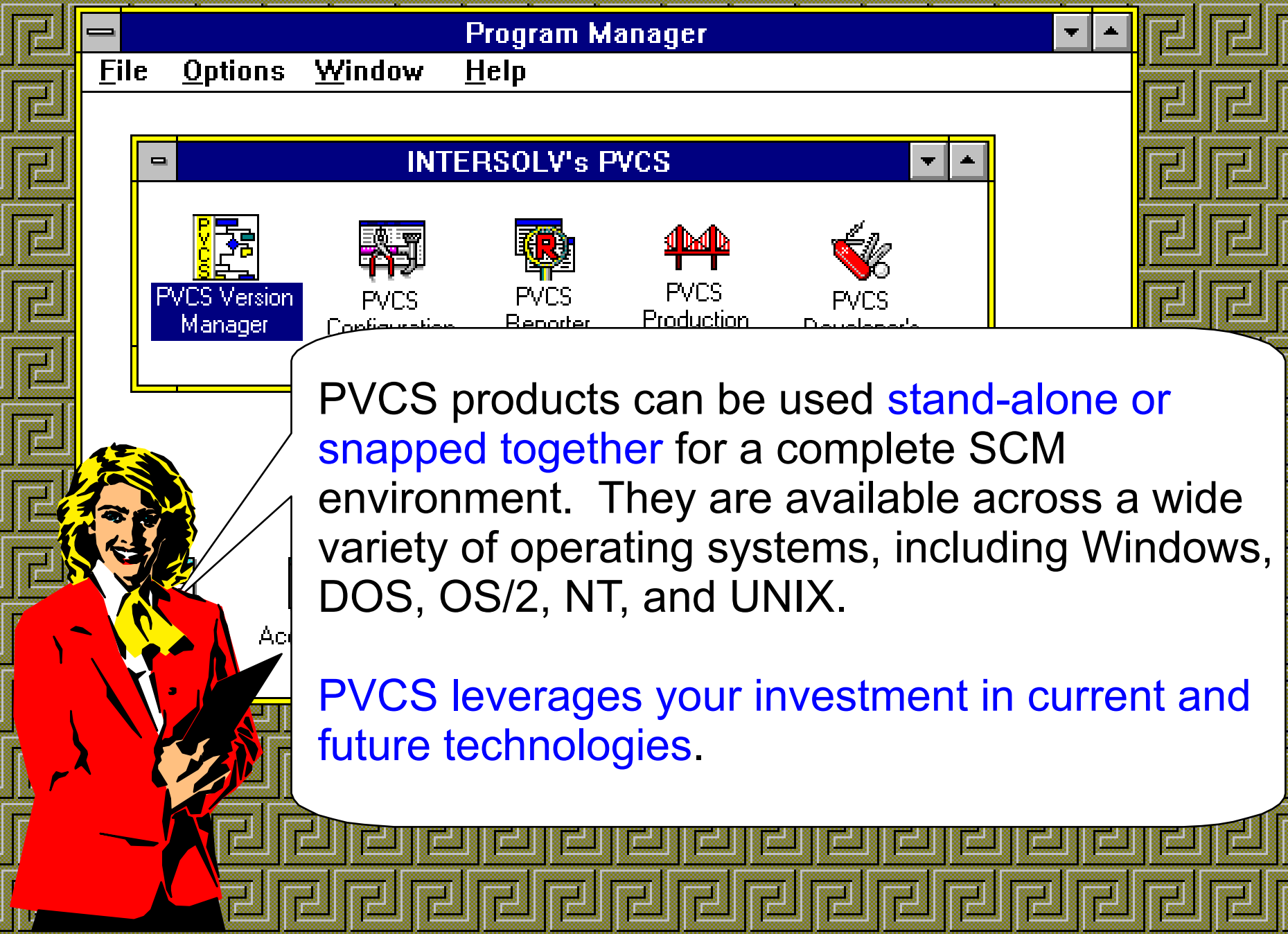
We have to coordinate development across 3 operating systems at 6 physical sites!

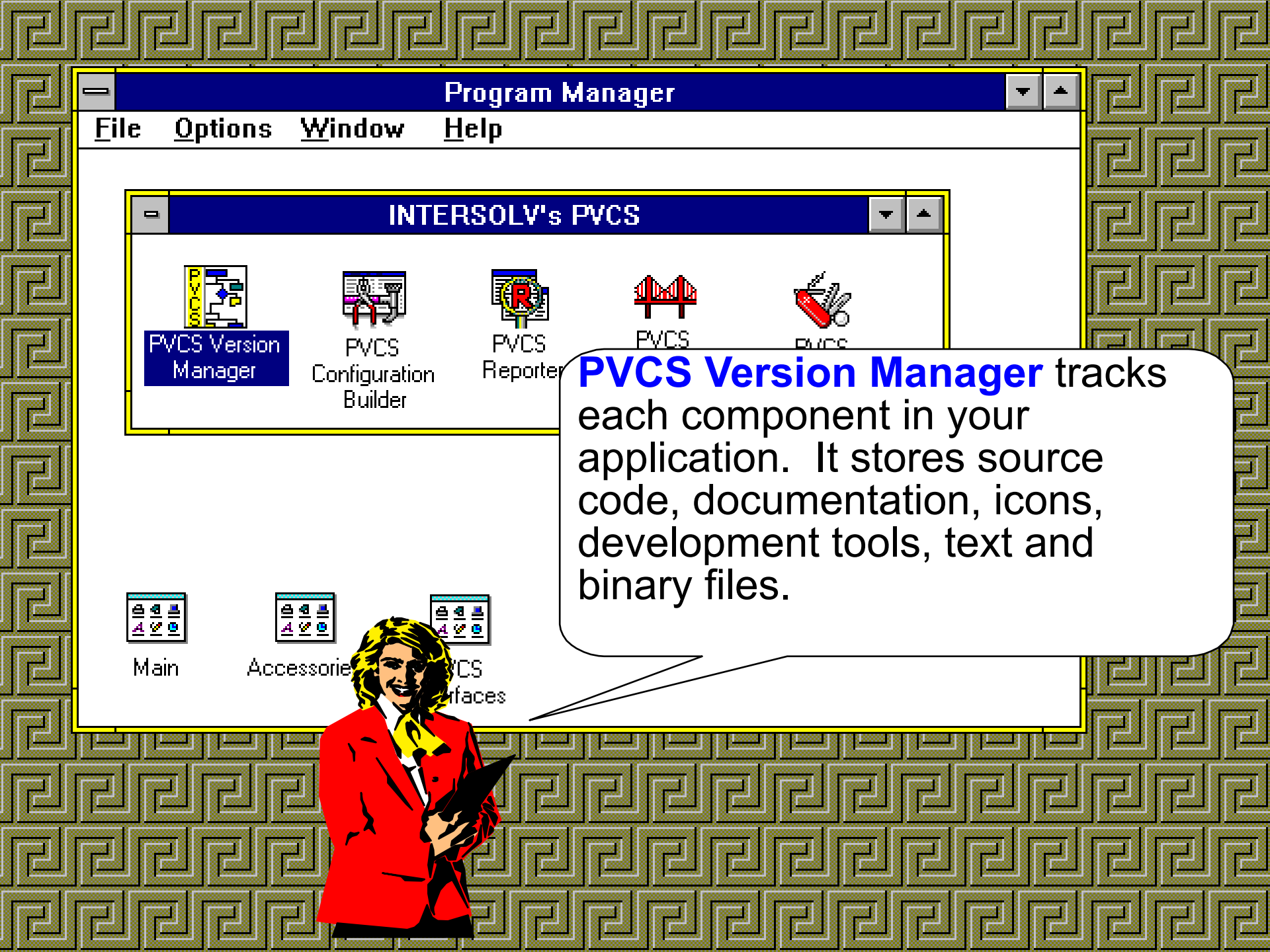
We're late because we can't share our work.

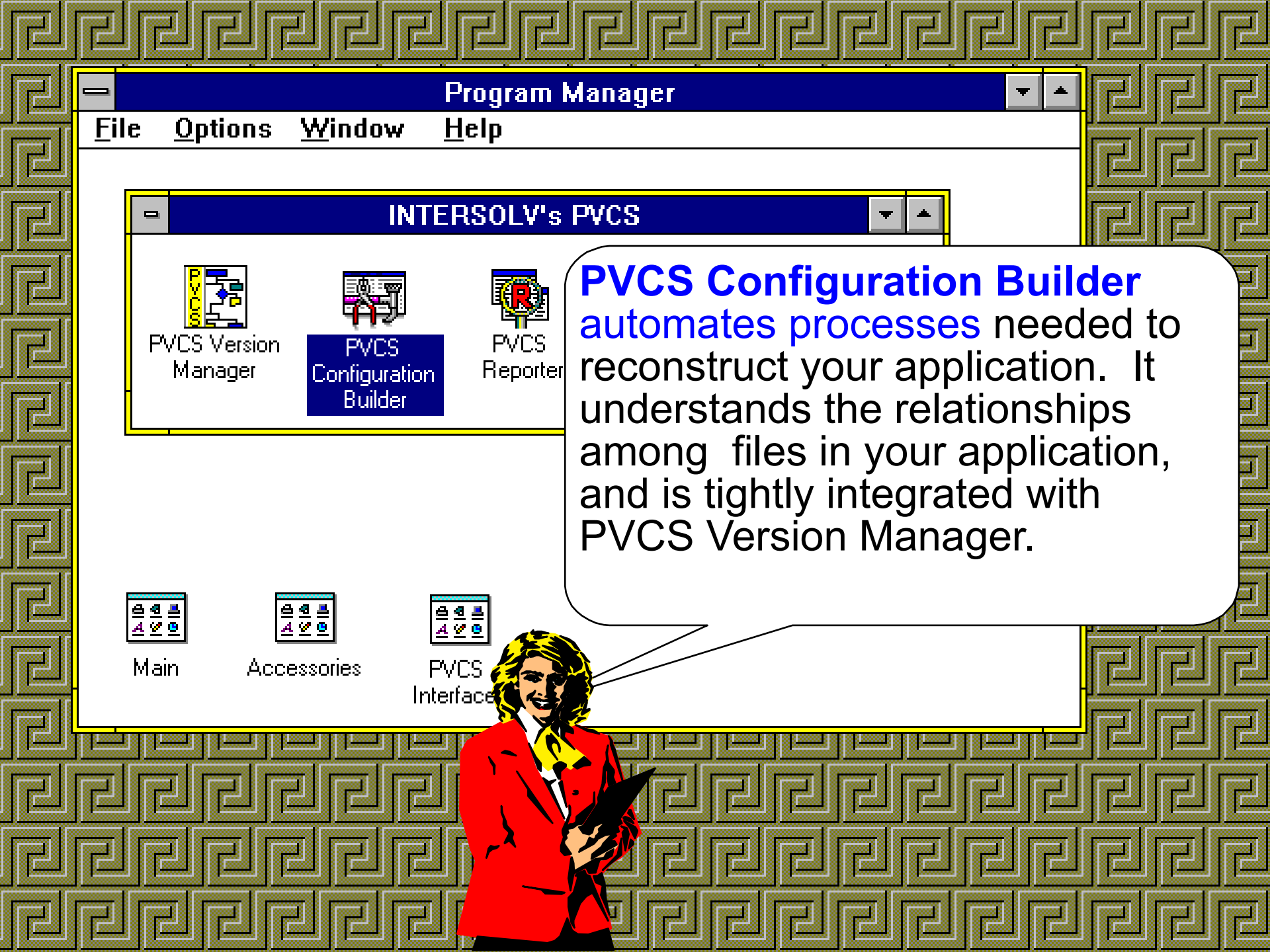
Someone overwrote the fix I worked on for the last two weeks!

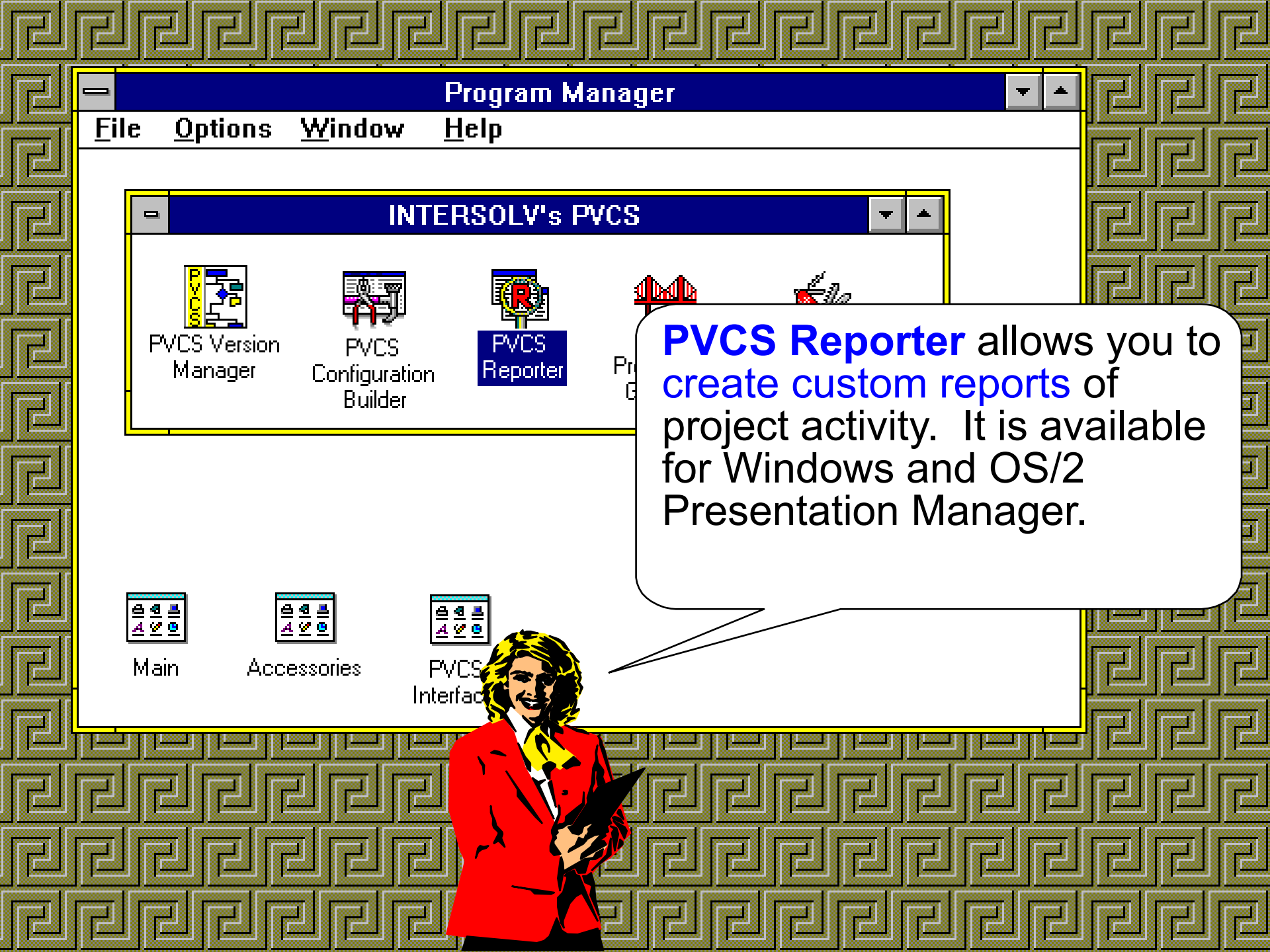
Get me a report!

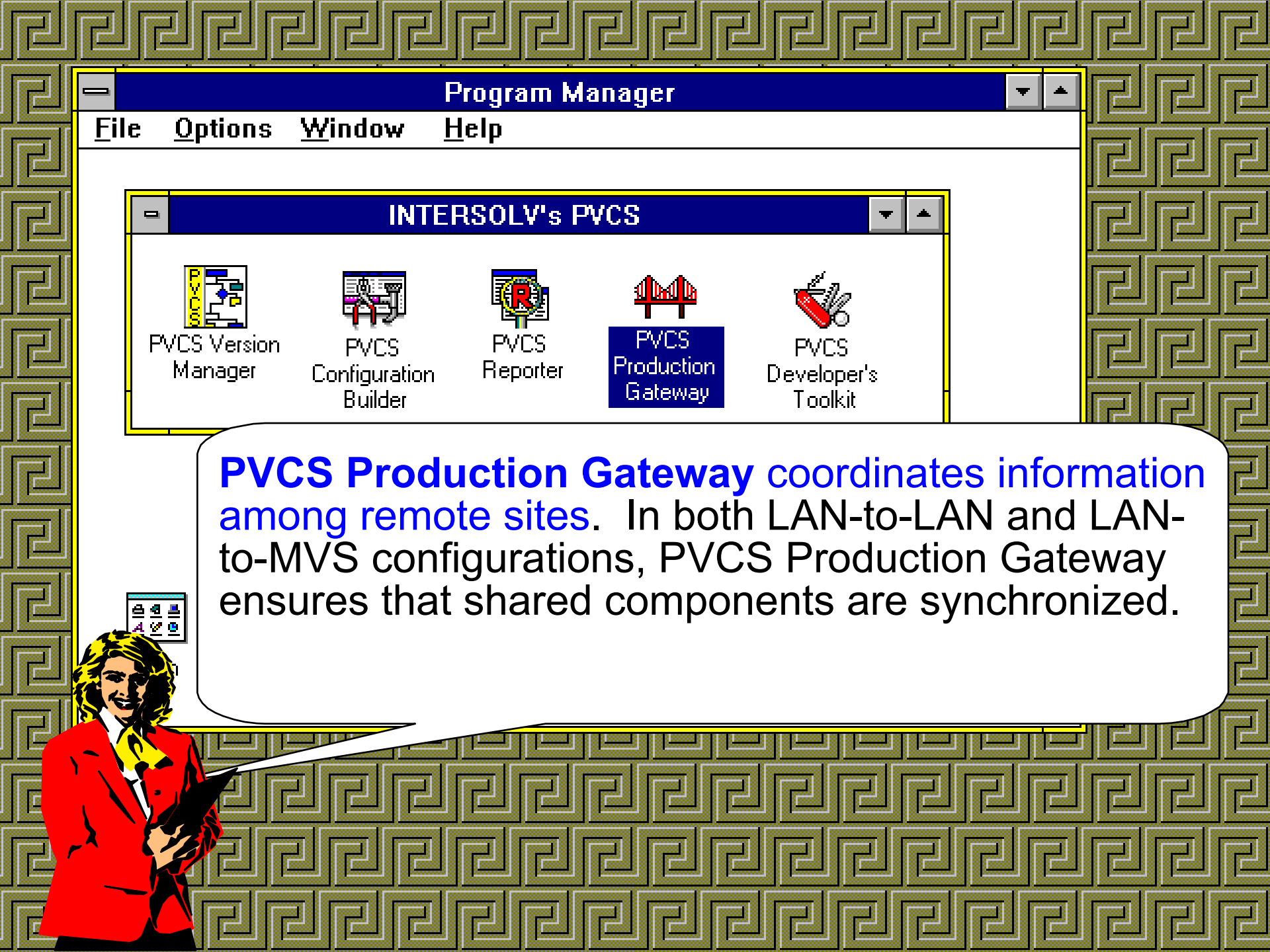

Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration
PVCS Reporter
PVCS Production
PVCS Developer's
Accessories
PVCS
PVCS is a family of tools that provides an integrated Software Configuration Management (SCM) solution to control the chaos in your development environment.

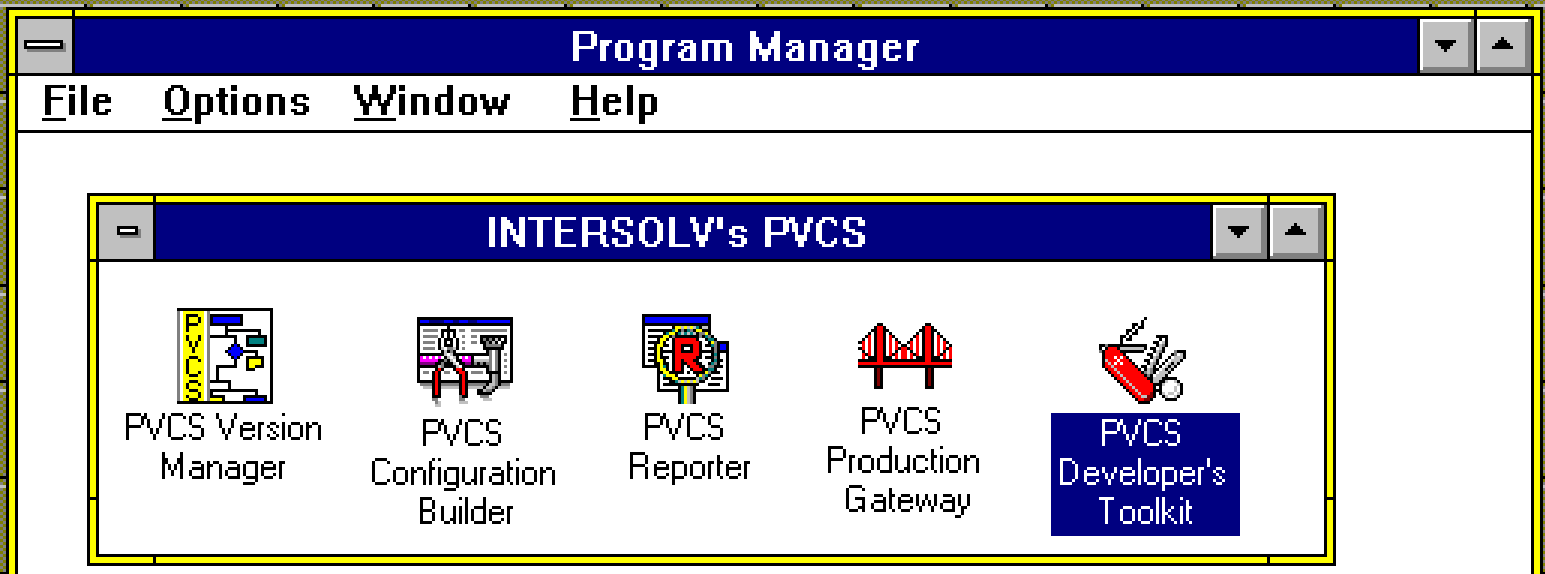

Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS
PVCS
PVCS Production
PVCS
PVCS products can be used stand-alone or snapped together for a complete SCM environment. They are available across a wide variety of operating systems, including Windows, DOS, OS/2, NT, and UNIX.
PVCS leverages your investment in current and future technologies.


Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration Builder
PVCS Reporter
PVCS
Main
Accessories
PVCS Version Manager tracks each component in your application. It stores source code, documentation, icons, development tools, text and binary files.

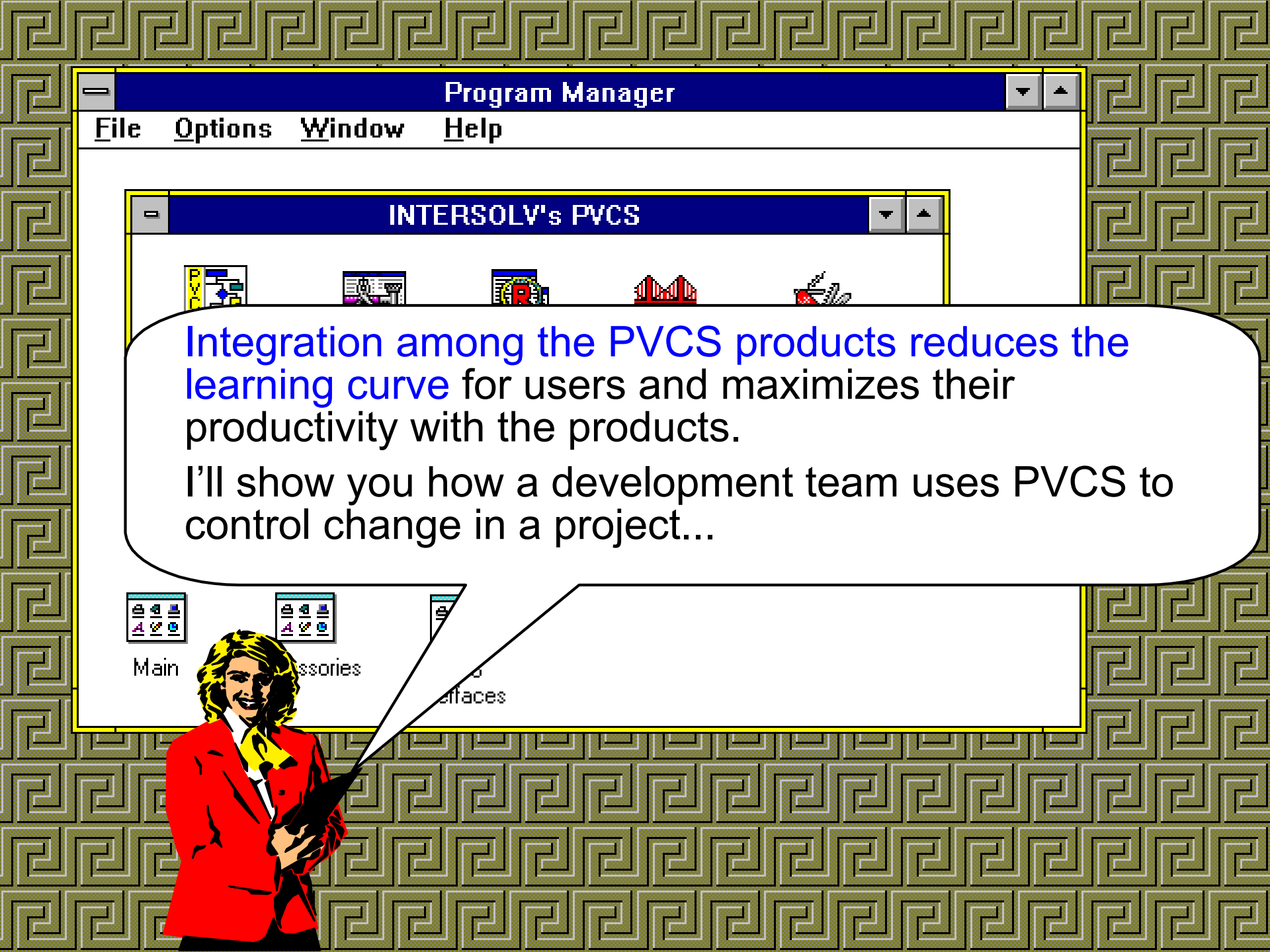

Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration Builder
PVCS Reporter
Main
Accessories
PVCS Interface
PVCS Configuration Builder automates processes needed to reconstruct your application. It understands the relationships among files in your application, and is tightly integrated with PVCS Version Manager.

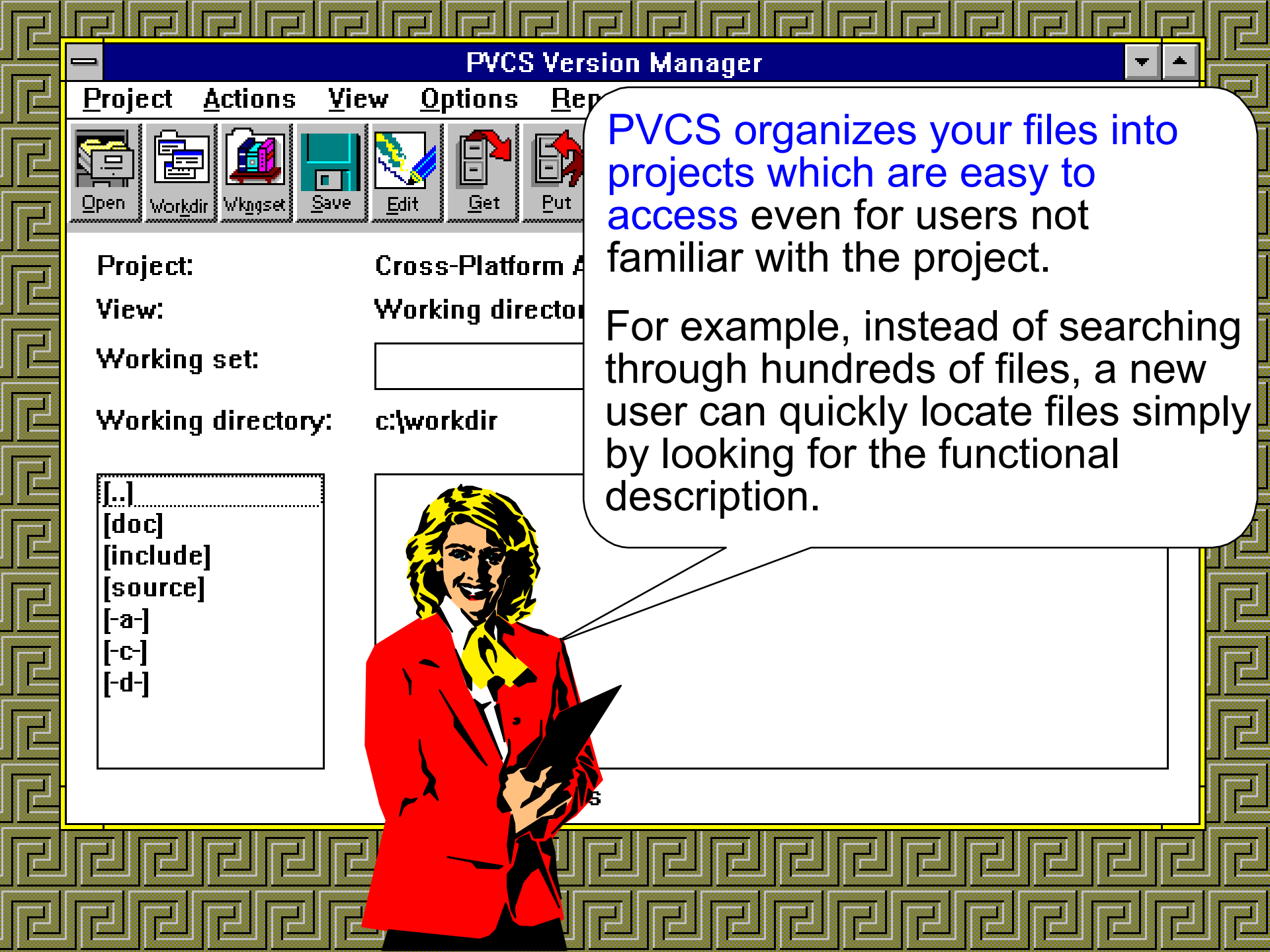

Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration Builder
PVCS Reporter
Main
Accessories
PVCS Interfac
PVCS Reporter allows you to create custom reports of project activity. It is available for Windows and OS/2 Presentation Manager.


Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration Builder
PVCS Reporter
PVCS Production Gateway
PVCS Developer's Toolkit
PVCS Production Gateway coordinates information among remote sites. In both LAN-to-LAN and LAN-to-MVS configurations, PVCS Production Gateway ensures that shared components are synchronized.



PVCS Developer's Toolkit provides an Application Programming Interface (API) to the PVCS Version Manager and PVCS Configuration Builder functions. With the Toolkit, you can snap PVCS into any custom application or vendor-supplied tool.


Program Manager
File Options Window Help
INTERSOLV's PVCS
Integration among the PVCS products reduces the learning curve for users and maximizes their productivity with the products.
I'll show you how a development team uses PVCS to control change in a project...
Main


PVCS Version Manager
Project Actions View Options Rep
Open
Workdir
Wkngset
Save
Edit
Get
Put
Project:
Cross-Platform A
View:
Working director
Working set:
Working directory:
c:\workdir
[..]
[doc]
[include]
[source]
[-a-]
[-c-]
[-d-]
PVCS organizes your files into projects which are easy to access even for users not familiar with the project.
For example, instead of searching through hundreds of files, a new user can quickly locate files simply by looking for the functional description.

You can see that our project spans multiple operating systems. PVCS uniquely enables code reuse over many platforms.

n Manager

ts Help

uild | Promote | Label | Diff | Archive | Rpt Mgr | Reporter | Exit

Project

Working

Windows File I/O Routines

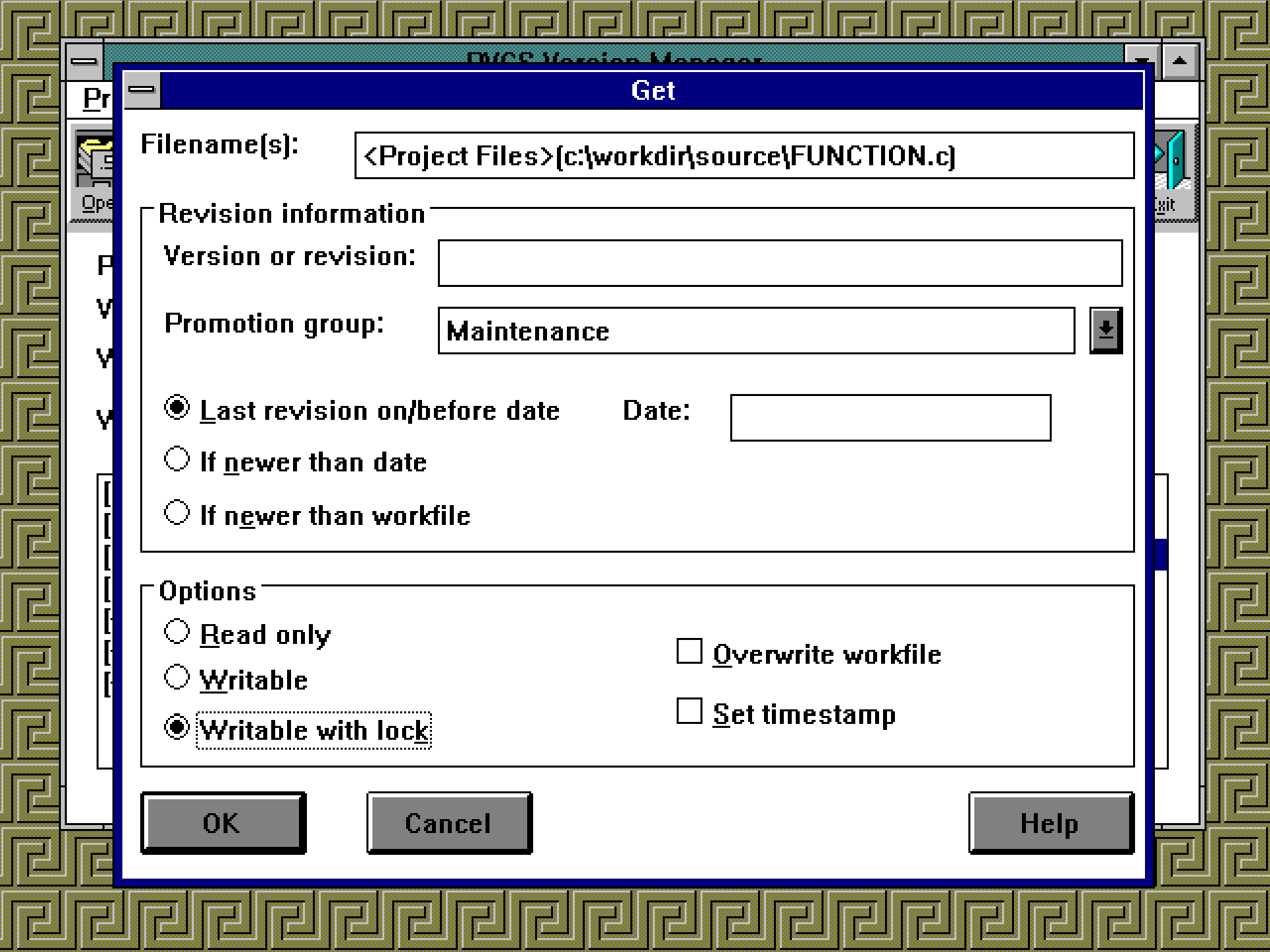
Workin irectory: c

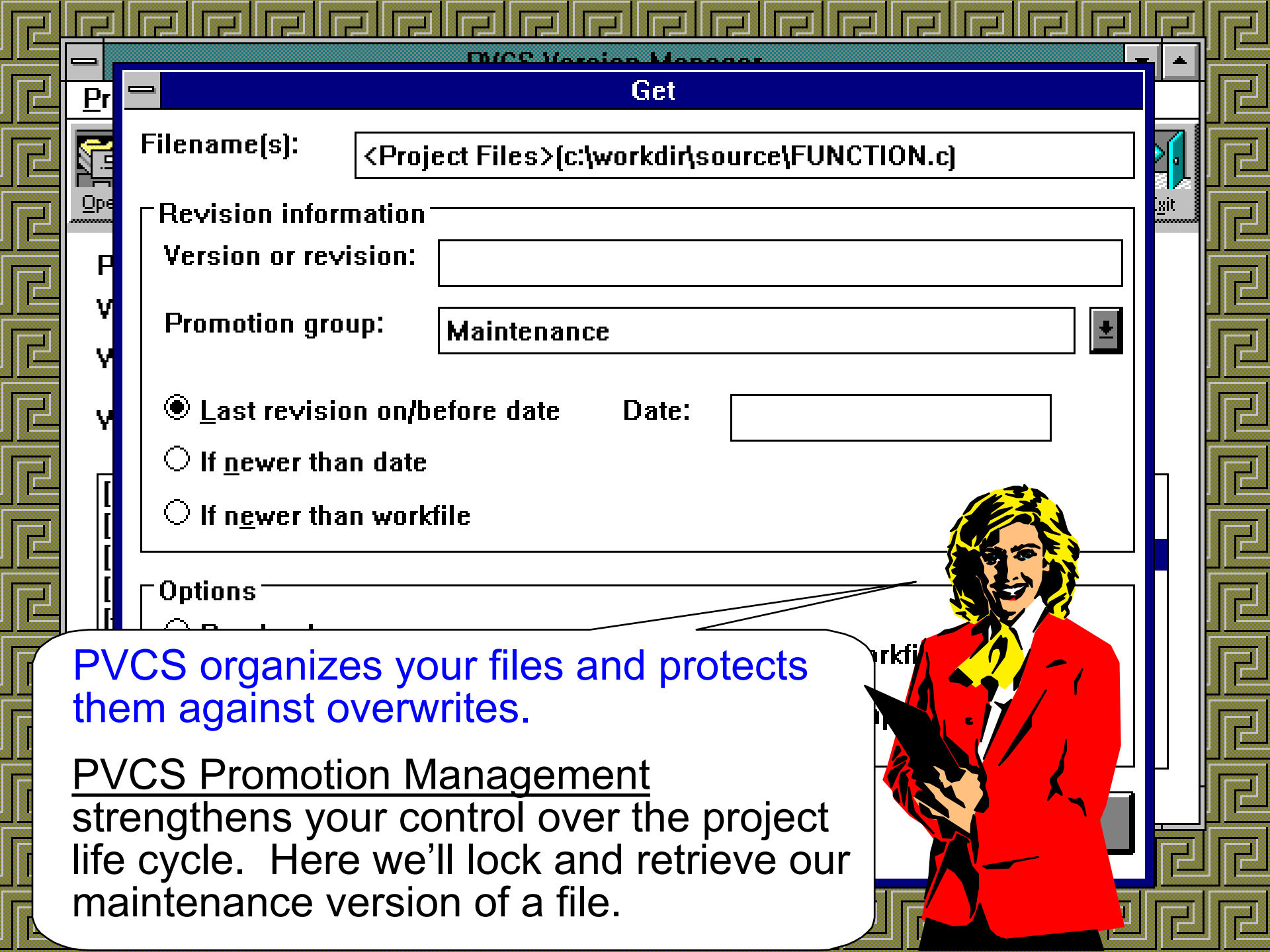
UNIX File I/O Routines
OS/2 File I/O Routines
NT File I/O Routines
Checking Account Routines

e]
e]

<Project Files>(c:\workfile\source\FUNCTION.c)
<Project Files>(c:\workfile\source\PROGRAM.c)
<Project Files>(c:\workfile\source\PROGRAM2.c)

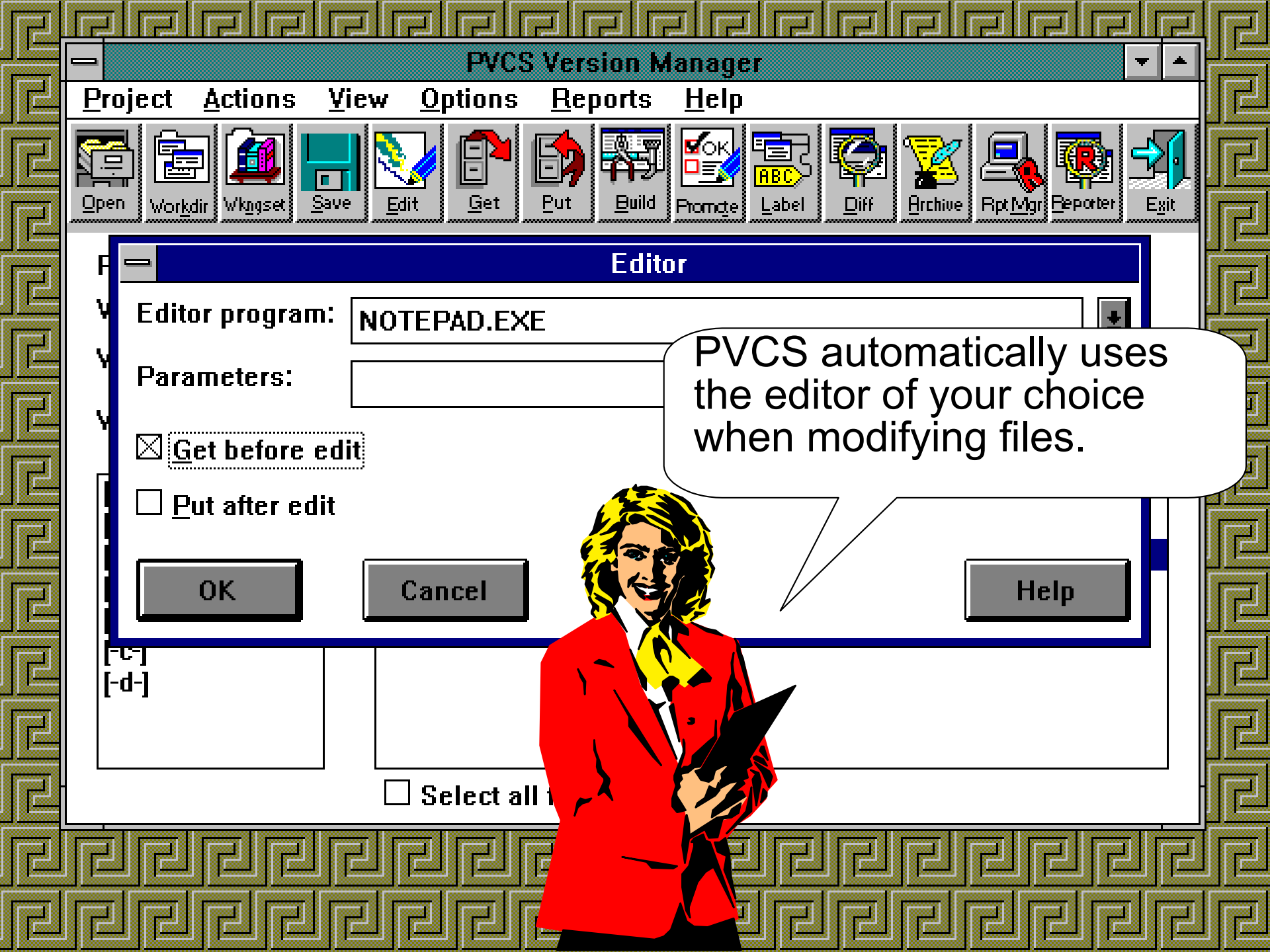
Select all files

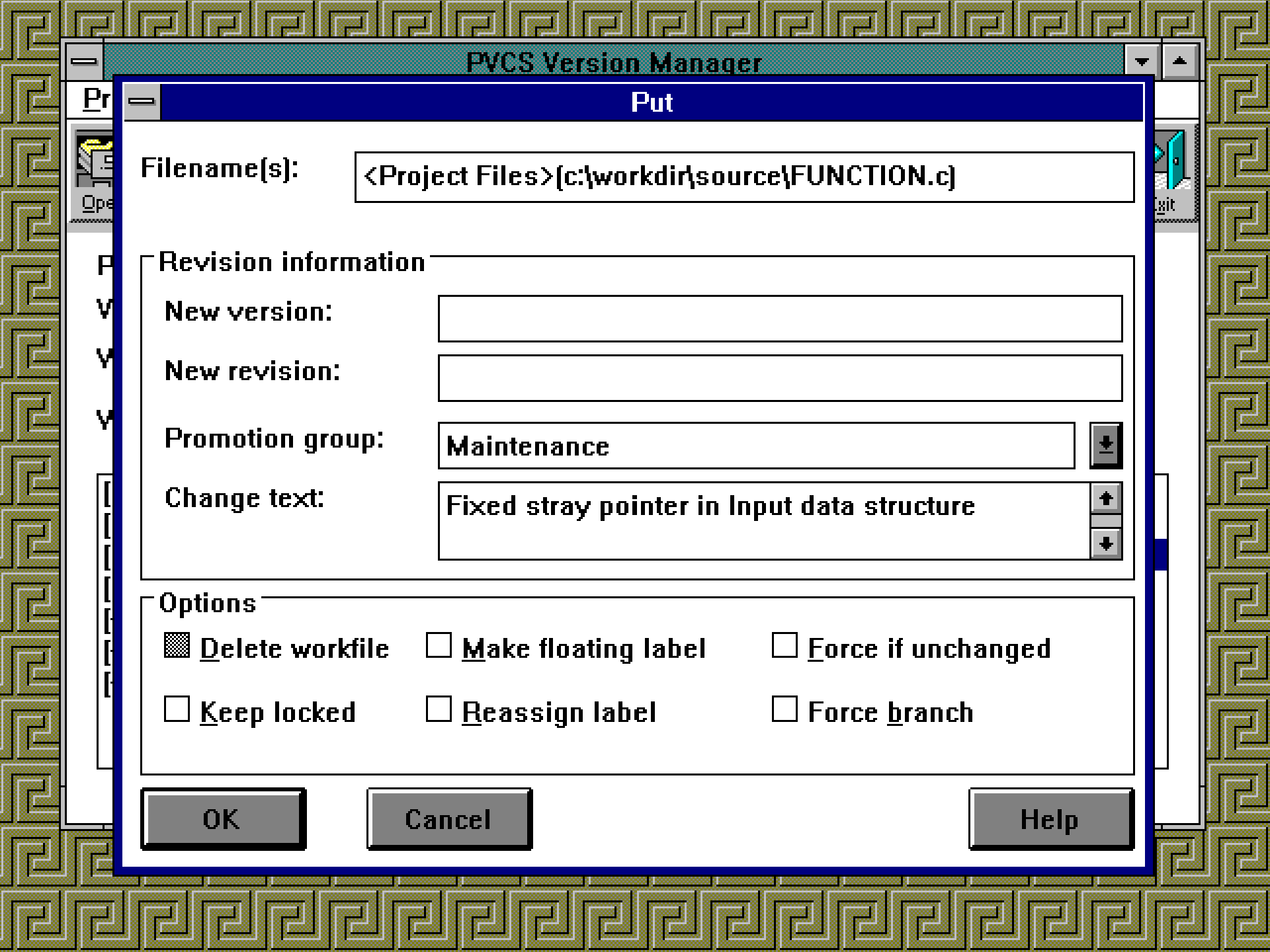

Get
Filename(s):
<Project Files>(c:\workdir\source\FUNCTION.c)
Revision information
Version or revision:
Promotion group:
Maintenance
Last revision on/before date
Date:
If newer than date
If newer than workfile
Options
Read only
Writable
Writable with lock
Overwrite workfile
Set timestamp
OK
Cancel
Help



PVCS organizes your files and protects them against overwrites.

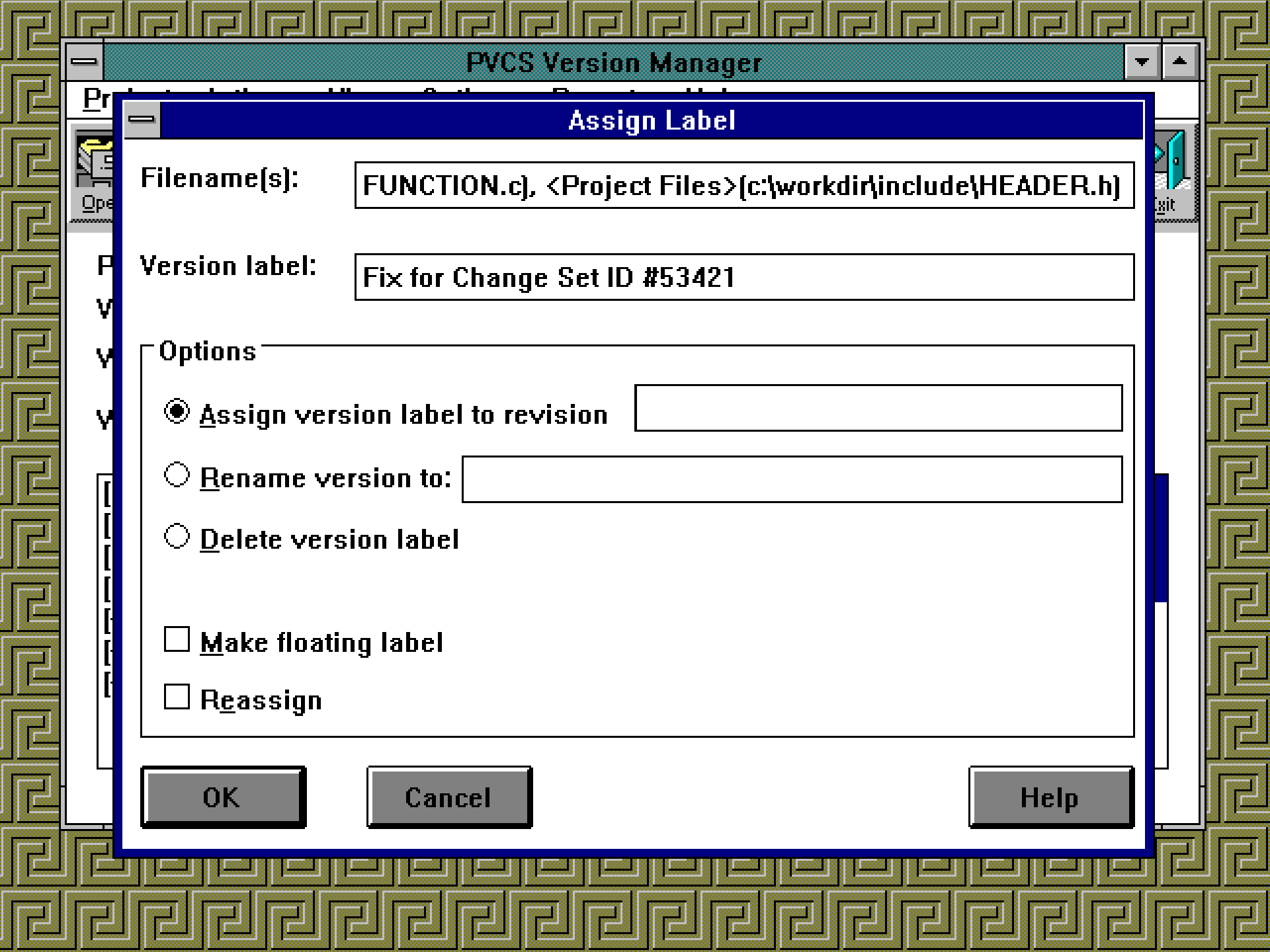
PVCS Promotion Management strengthens your control over the project life cycle. Here we'll lock and retrieve our maintenance version of a file.

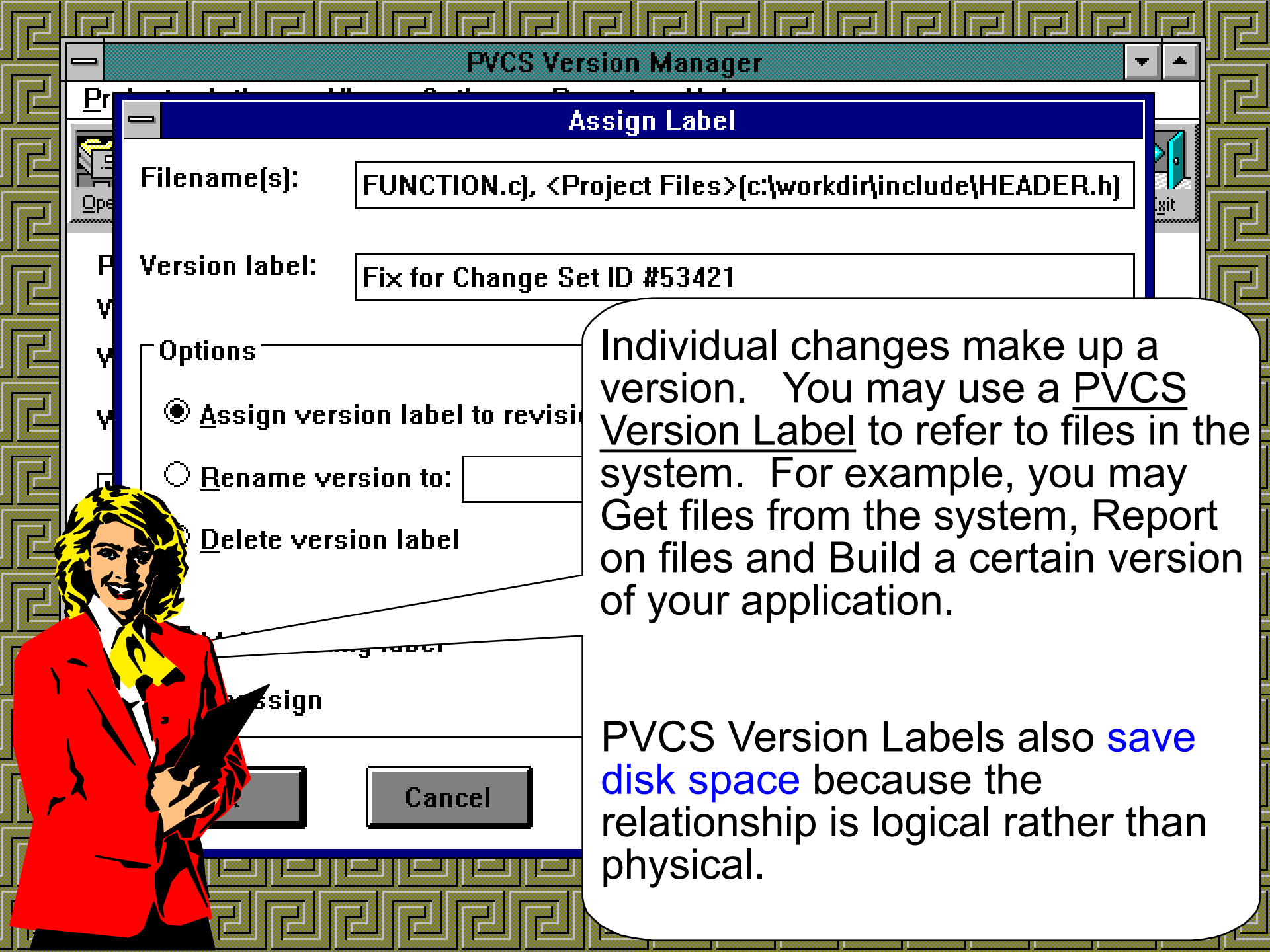

PVCS Version Manager
Project Actions View Options Reports Help
Open Workdir Wkngset Save Edit Get Put Build Promote Label Diff Archive RptMgr Reporter Exit
Editor
Editor program:
NOTEPAD.EXE
Parameters:
Get before edit
Put after edit
OK
Cancel
Help
PVCS automatically uses the editor of your choice when modifying files.
[-c-]
[-d-]
Select all


PVCS Version Manager
Put
Filename(s):
<Project Files>(c:\workdir\source\FUNCTION.c)
Revision information
New version:
New revision:
Promotion group:
Maintenance
Change text:
Fixed stray pointer in Input data structure
Options
Delete workfile
Make floating label
Force if unchanged
Keep locked
Reassign label
Force branch
OK
Cancel
Help

PVCS records who made the change and when the change was made -- as well as the change itself.

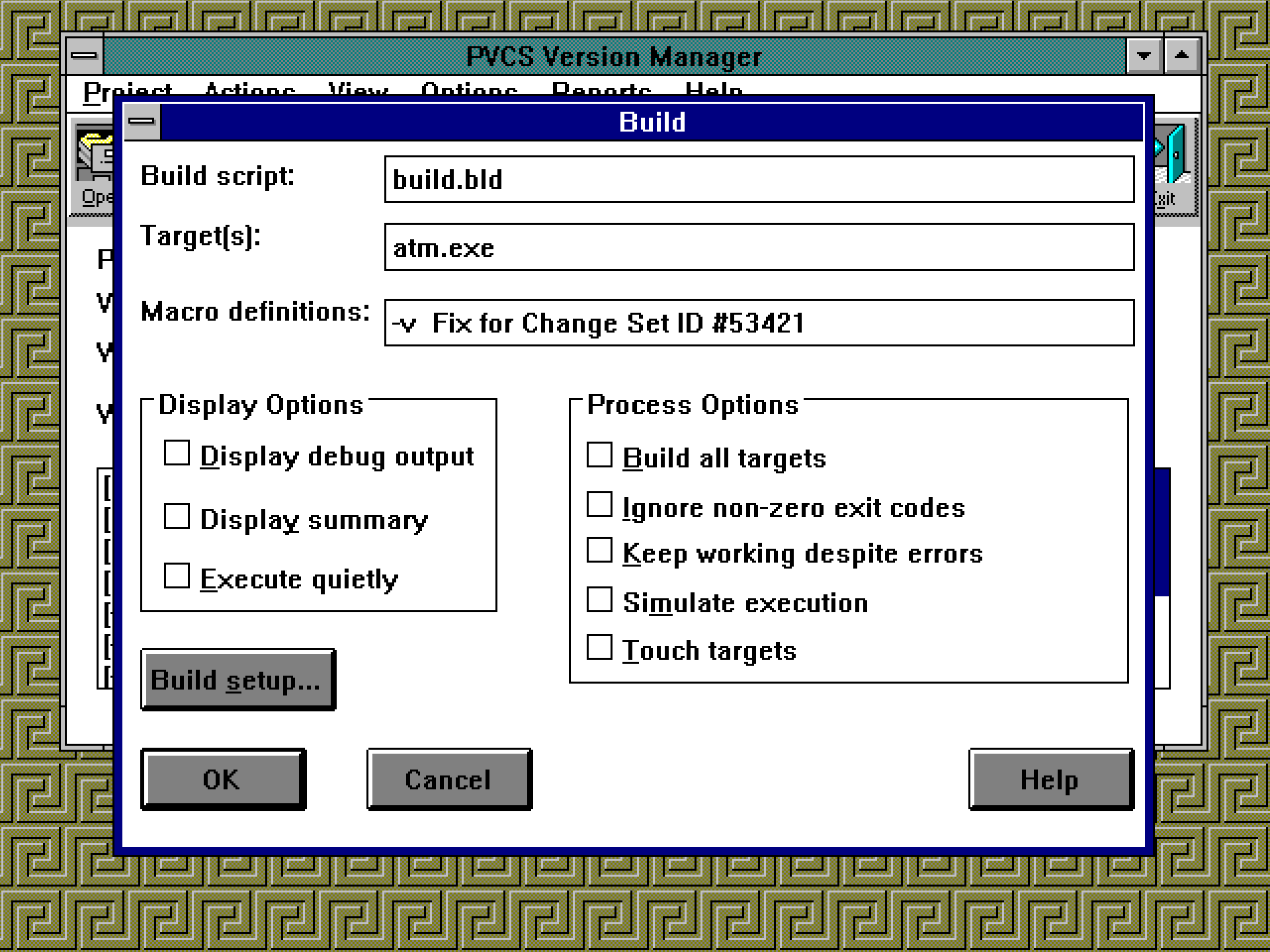
The file is now ready for other team members to use our modification.

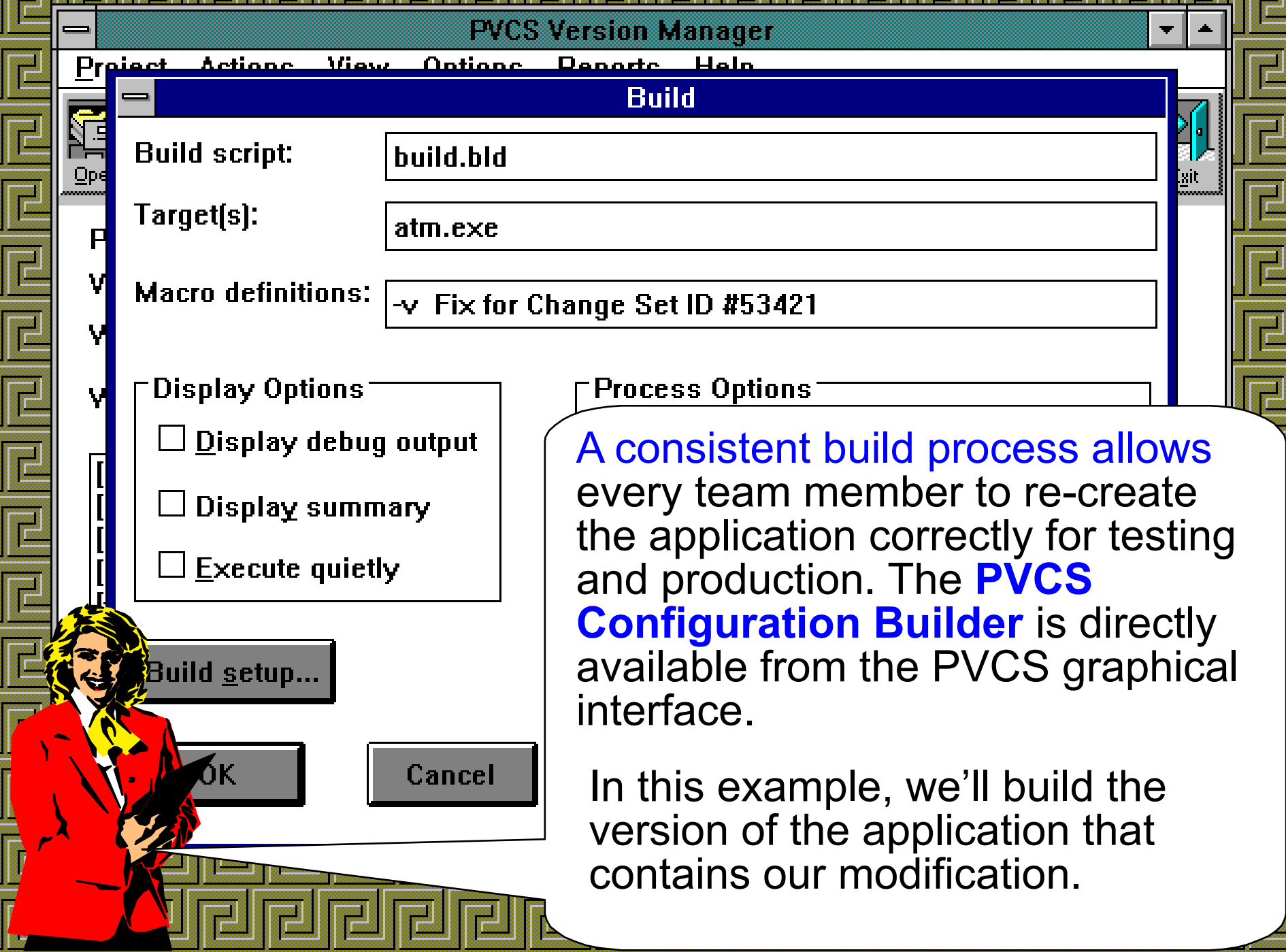

PVCS Version Manager
Assign Label
Filename(s):
FUNCTION.c), <Project Files>(c:\workdir\include\HEADER.h)
Version label:
Fix for Change Set ID #53421
Options
Assign version label to revision
Rename version to:
Delete version label
Make floating label
Reassign
OK
Cancel
Help



Individual changes make up a version. You may use a PVCS Version Label to refer to files in the system. For example, you may Get files from the system, Report on files and Build a certain version of your application.

PVCS Version Labels also save disk space because the relationship is logical rather than physical.


PVCS Version Manager
Project Actions View Options Reports Help
Build
Build script:
build.bld
Target(s):
atm.exe
Macro definitions:
-v Fix for Change Set ID #53421
Display Options
Display debug output
Display summary
Execute quietly
Process Options
Build all targets
Ignore non-zero exit codes
Keep working despite errors
Simulate execution
Touch targets
Build setup...
OK
Cancel
Help


PVCS Version Manager
Project Actions View Options Reports Help
Build
Build script:
build.bld
Target(s):
atm.exe
Macro definitions:
-v Fix for Change Set ID #53421
Display Options
Display debug output
Display summary
Execute quietly
Process Options
Build setup...
OK
Cancel
A consistent build process allows every team member to re-create the application correctly for testing and production. The PVCS Configuration Builder is directly available from the PVCS graphical interface.
In this example, we'll build the version of the application that contains our modification.

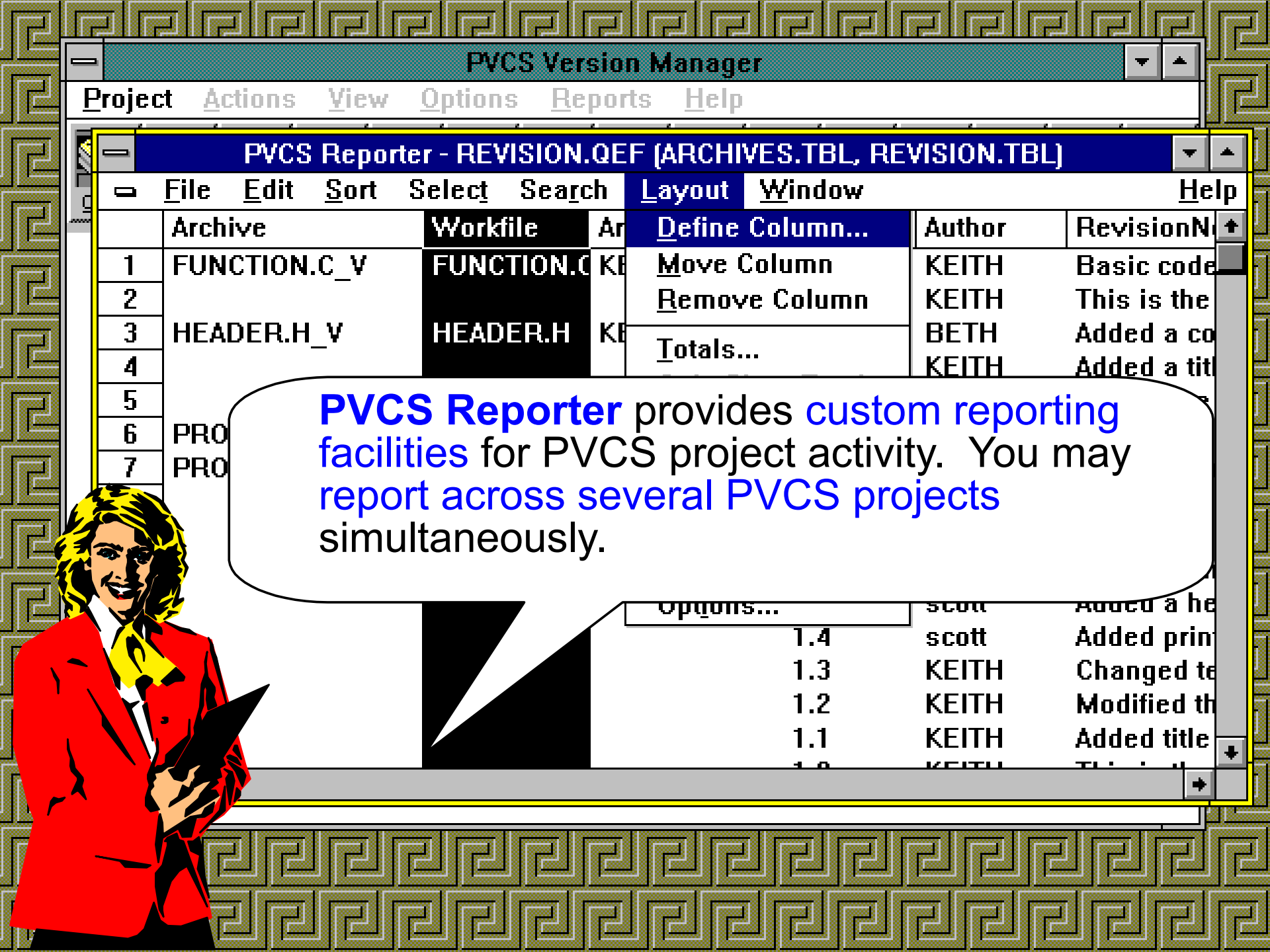
PVCS Version Manager

Project Actions View Options Reports Help

Archive Report – c:\pvcs\demo\cproject\archives(c:\workdir\include\HEADER.h)

```
C:\pvcs\demo\cproject\archives\program.c_v - Fix for Change Set ID #53421
C:\pvcs\demo\cproject\archives\program2.c_v - maintenance : 1.7
C:\pvcs\demo\cproject\archives\program2.c_v - pre-beta : 1.9
C:\pvcs\demo\cproject\archives\program2.c_v - base_file : 1.0
C:\pvcs\demo\cproject\archives\program2.c_v - Fix for Change Set ID #5342
C:\pvcs\demo\cproject\archives\function.c_v - base_file : 1.0
C:\pvcs\demo\cproject\archives\function.c_v - Fix for Change Set ID #5342
C:\pvcs\demo\cproject\archives\header.h_v - base_file : 1.0
C:\pvcs\demo\cproject\archives\header.h_v - Fix for Change Set ID #53421
```

PVCS Reporting enables you to determine which files have changed and why they've changed. You can also identify current changes being made to the system.


PVCS Version Manager
Project Actions View Options Reports Help
PVCS Reporter - REVISION.QEF (ARCHIVES.TBL, REVISION.TBL)
File Edit Sort Select Search Layout Window Help
Archive
Workfile
Author
Define Column...
Move Column
Remove Column
Totals...
Options...
FUNCTION.C_V
HEADER.H_V
KEITH
BETH
scott
Basic code
This is the
Added a co
Added a tit
Added a he
Added prin
Changed te
Modified th
Added title
1.4
1.3
1.2
1.1
PVCS Reporter provides custom reporting facilities for PVCS project activity. You may report across several PVCS projects simultaneously.

Connection to Remote Development

As you saw, you can access PVCS Version Manager, PVCS Configuration Manager, and PVCS Reporter from within the graphical interface. This provides an integrated SCM environment for your developers. You can also access these tools from the command line, various development environments or the PVCS Developer's Toolkit.

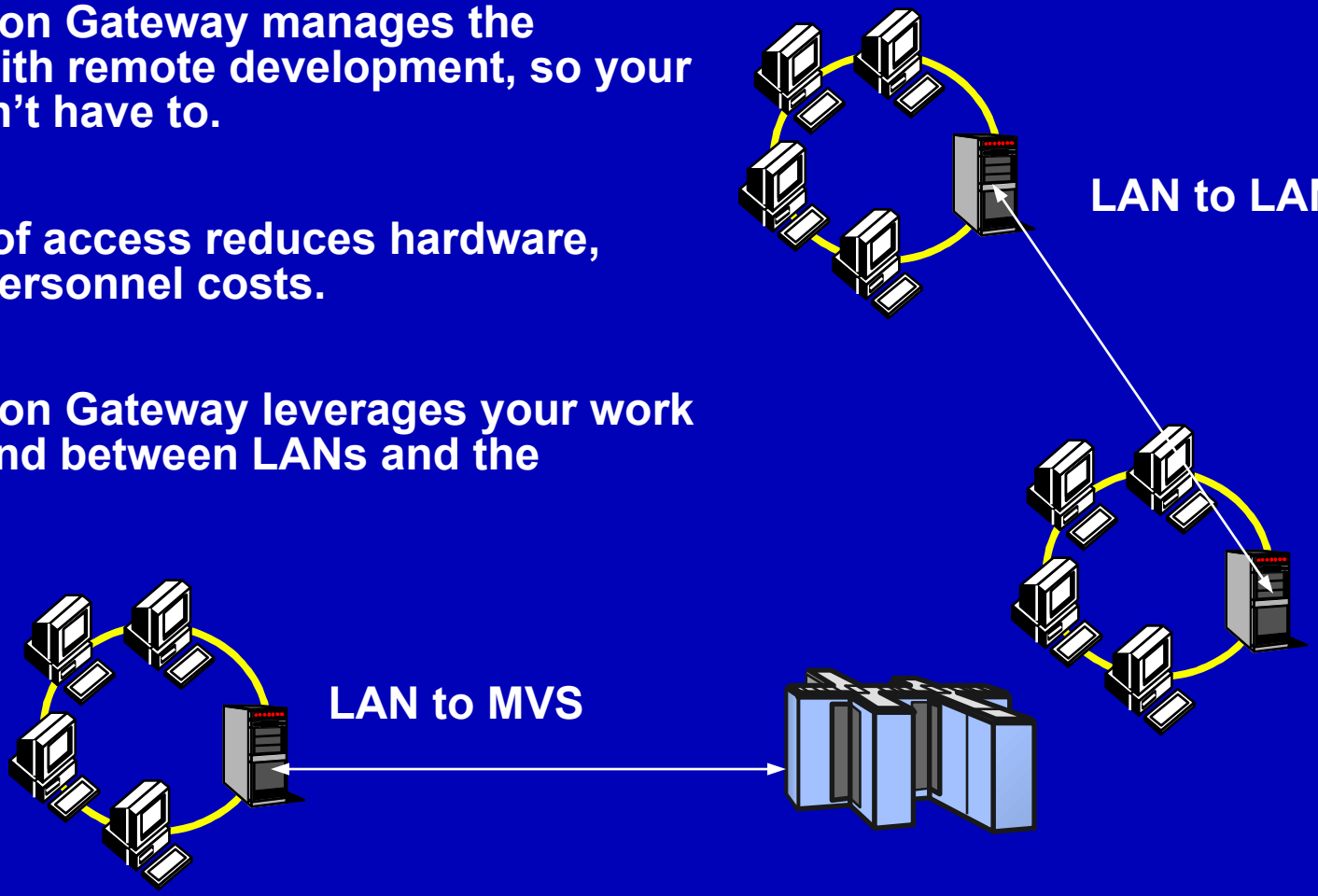
But what about the PVCS Production Gateway? It has been running all the time in the background. Let's learn a little more about it...

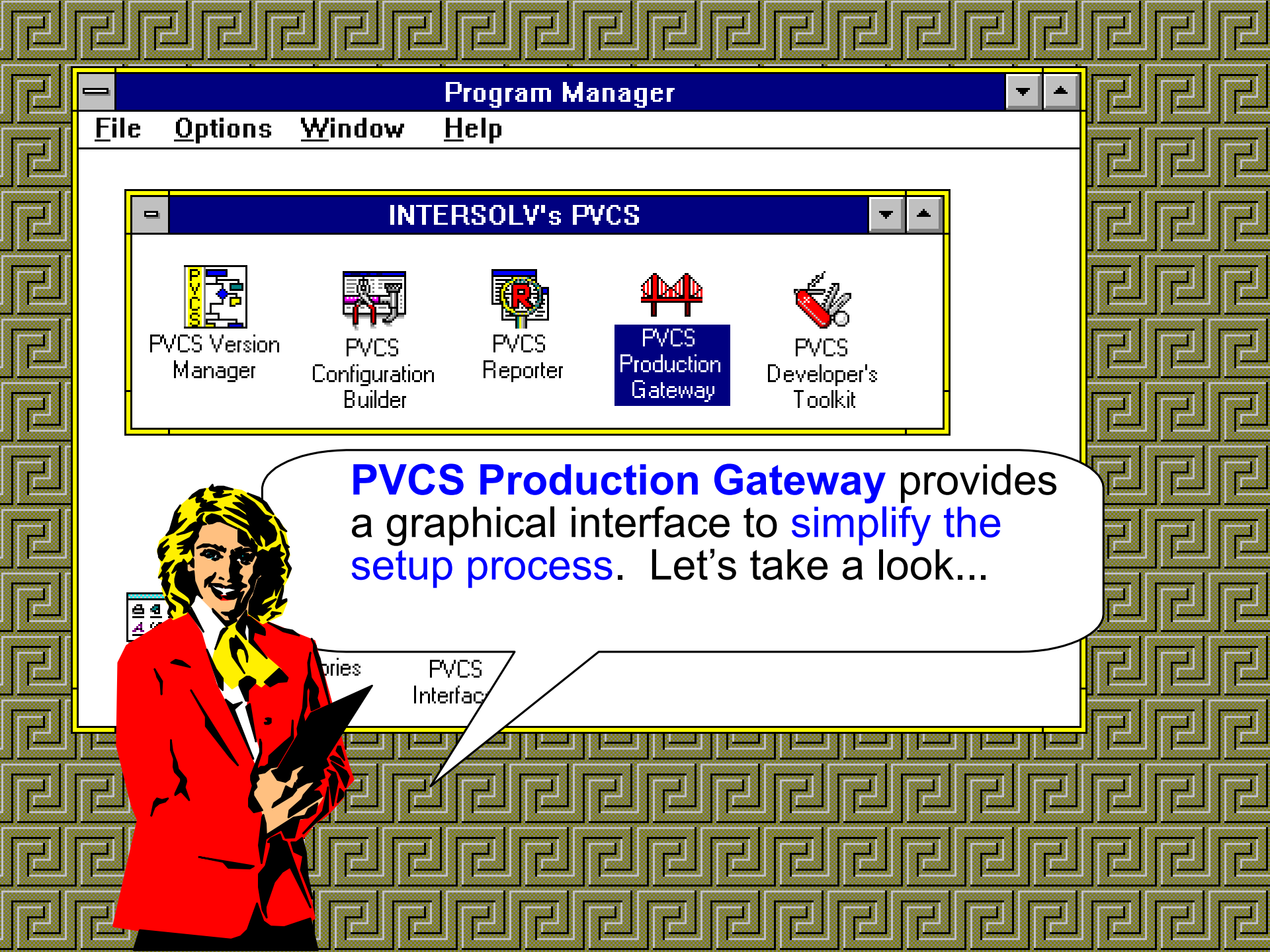
Connection to Remote Development

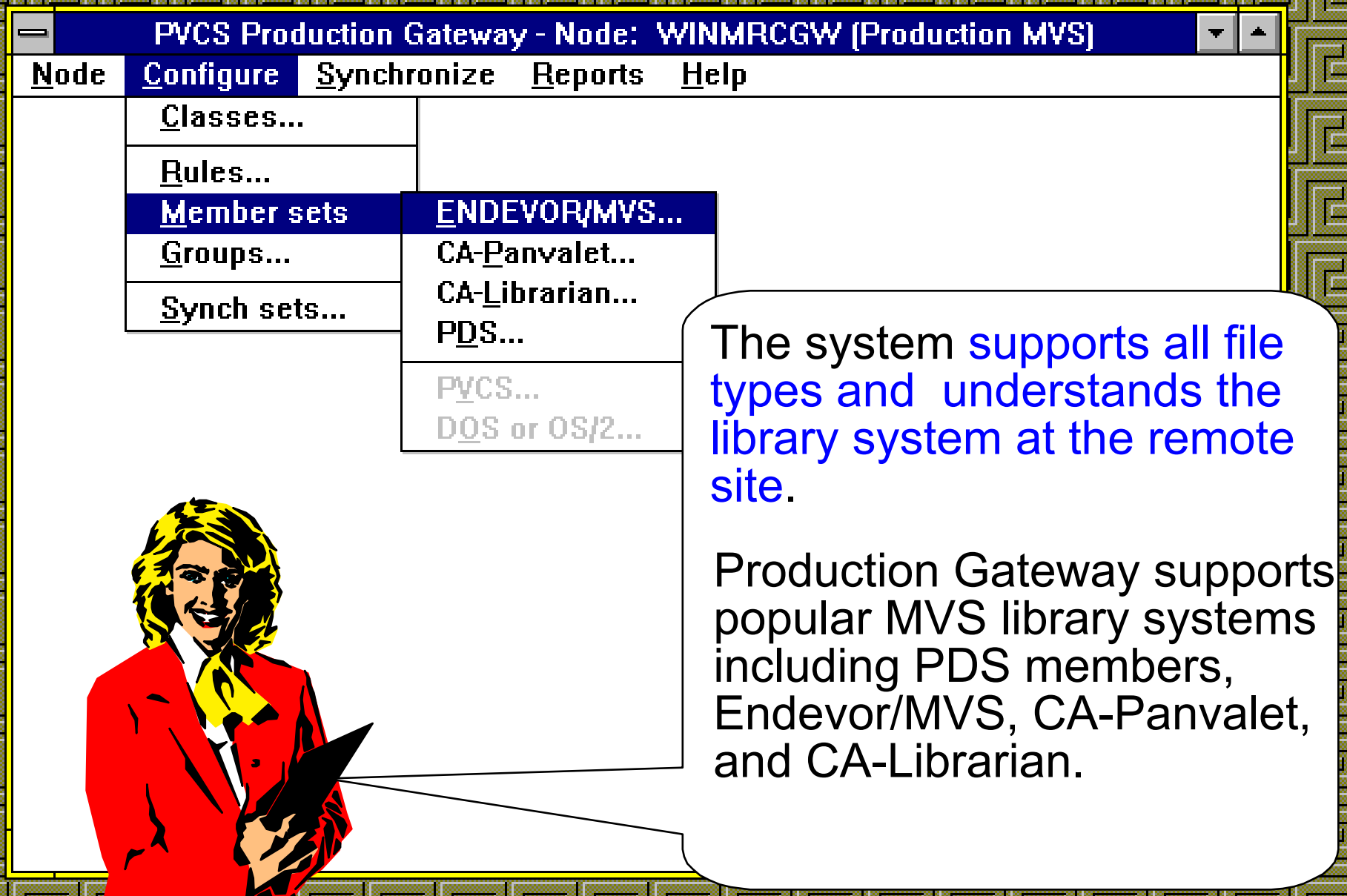
PVCS Production Gateway manages the coordination with remote development, so your developers don't have to.

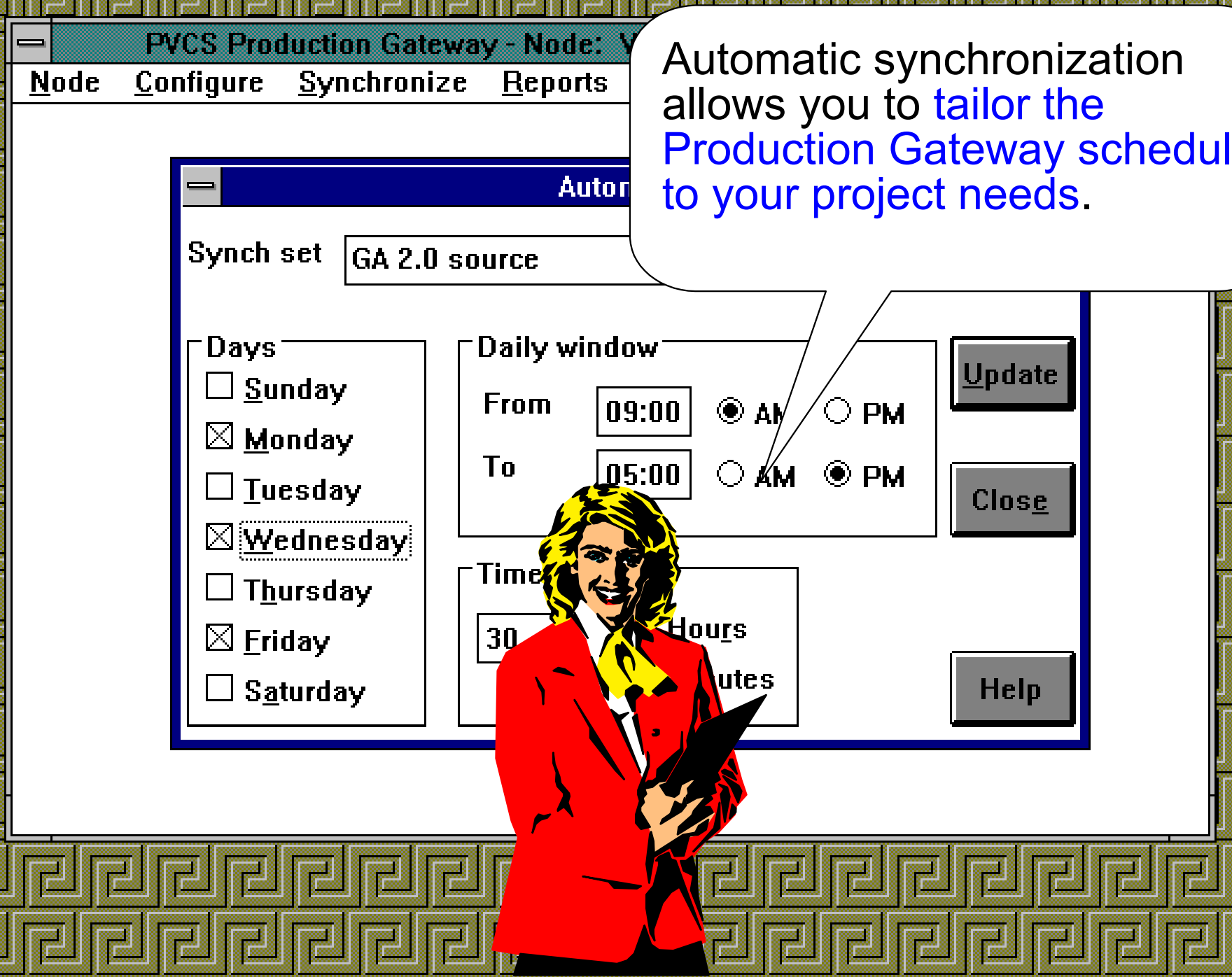
A single point of access reduces hardware, software and personnel costs.

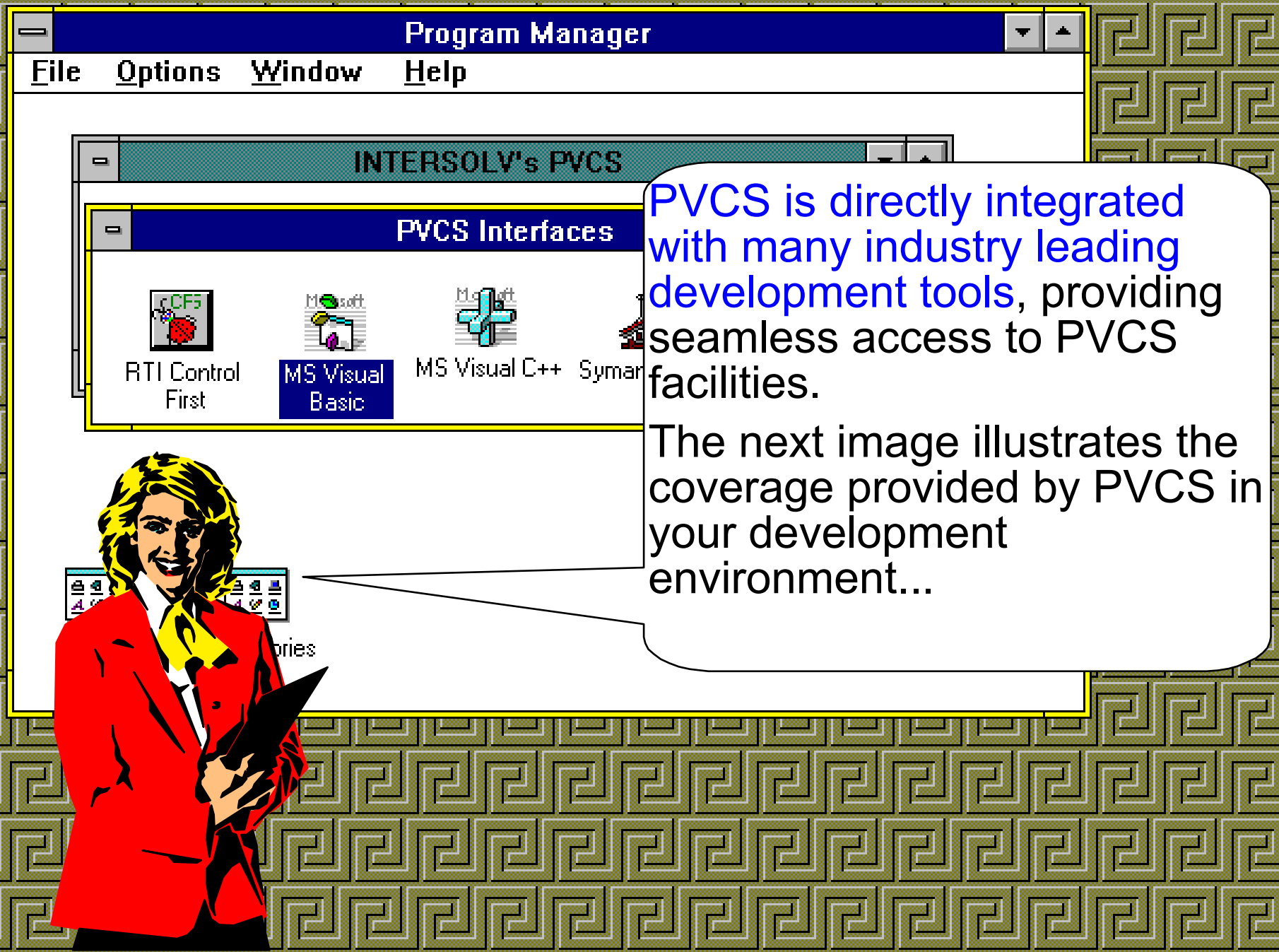
PVCS Production Gateway leverages your work across LANs and between LANs and the mainframe.




Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Version Manager
PVCS Configuration Builder
PVCS Reporter
PVCS Production Gateway
PVCS Developer's Toolkit
PVCS Production Gateway provides a graphical interface to simplify the setup process. Let's take a look...

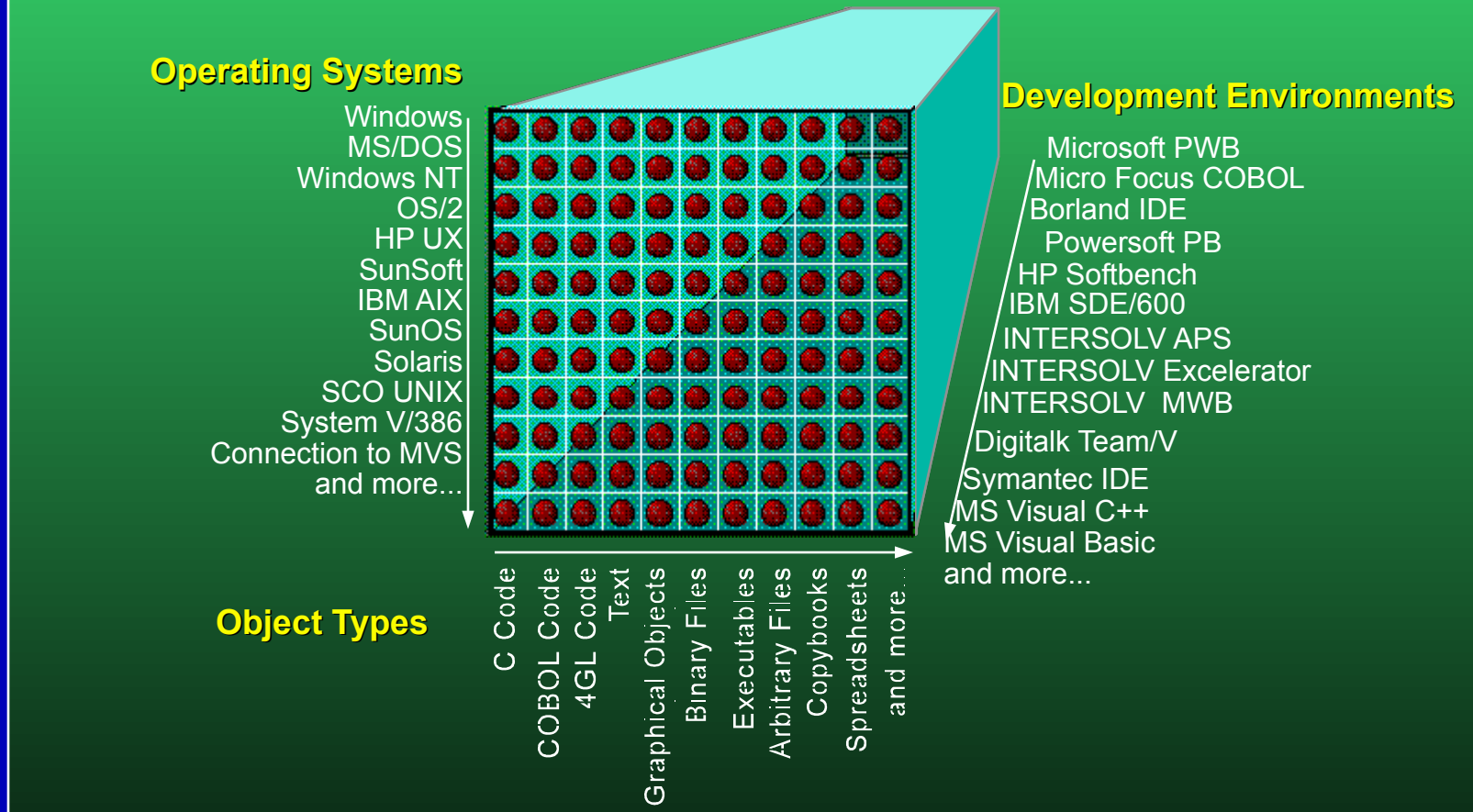

PVCS Production Gateway - Node: WINMRCGW (Production MVS)
Node
Configure
Synchronize
Reports
Help
Classes...
Rules...
Member sets
Groups...
Synch sets...
ENDEVOR/MVS...
CA-Panvalet...
CA-Librarian...
PDS...
PVCS...
DOS or OS/2...
The system supports all file types and understands the library system at the remote site.
Production Gateway supports popular MVS library systems including PDS members, Endevor/MVS, CA-Panvalet, and CA-Librarian.


PVCS Production Gateway - Node:
Node
Configure
Synchronize
Reports
Autor
Synch set
GA 2.0 source
Days
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Daily window
From
09:00
AM
PM
To
05:00
AM
PM
Time
30
Hours
utes
Update
Close
Help
Automatic synchronization allows you to tailor the Production Gateway schedule to your project needs.


Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Interfaces
RTI Control First
MS Visual Basic
MS Visual C++
PVCS is directly integrated with many industry leading development tools, providing seamless access to PVCS facilities.
The next image illustrates the coverage provided by PVCS in your development environment...

PVCS SCM Coverage

Broadest Reach and Range



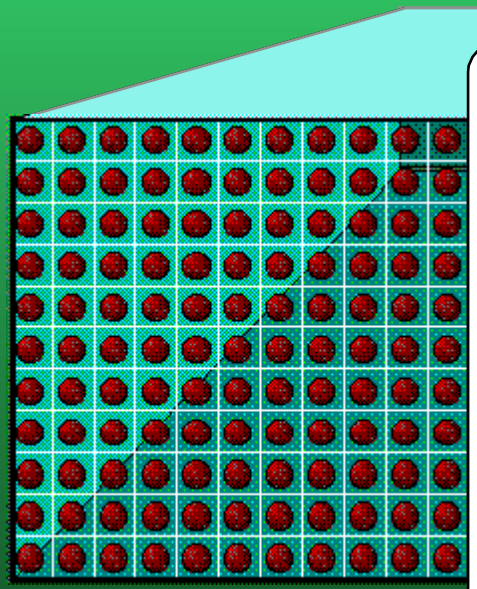
Standardize Within and Across Projects

PVCS SCM Coverage

Broadest Reach and Range

Operating Systems

Windows
MS/DOS
Windows NT
OS/2
HP UX
SunSoft
IBM AIX
SunOS
Solaris
SCO UNIX
System V/386
Co[illegible]n to MVS
[illegible]more...



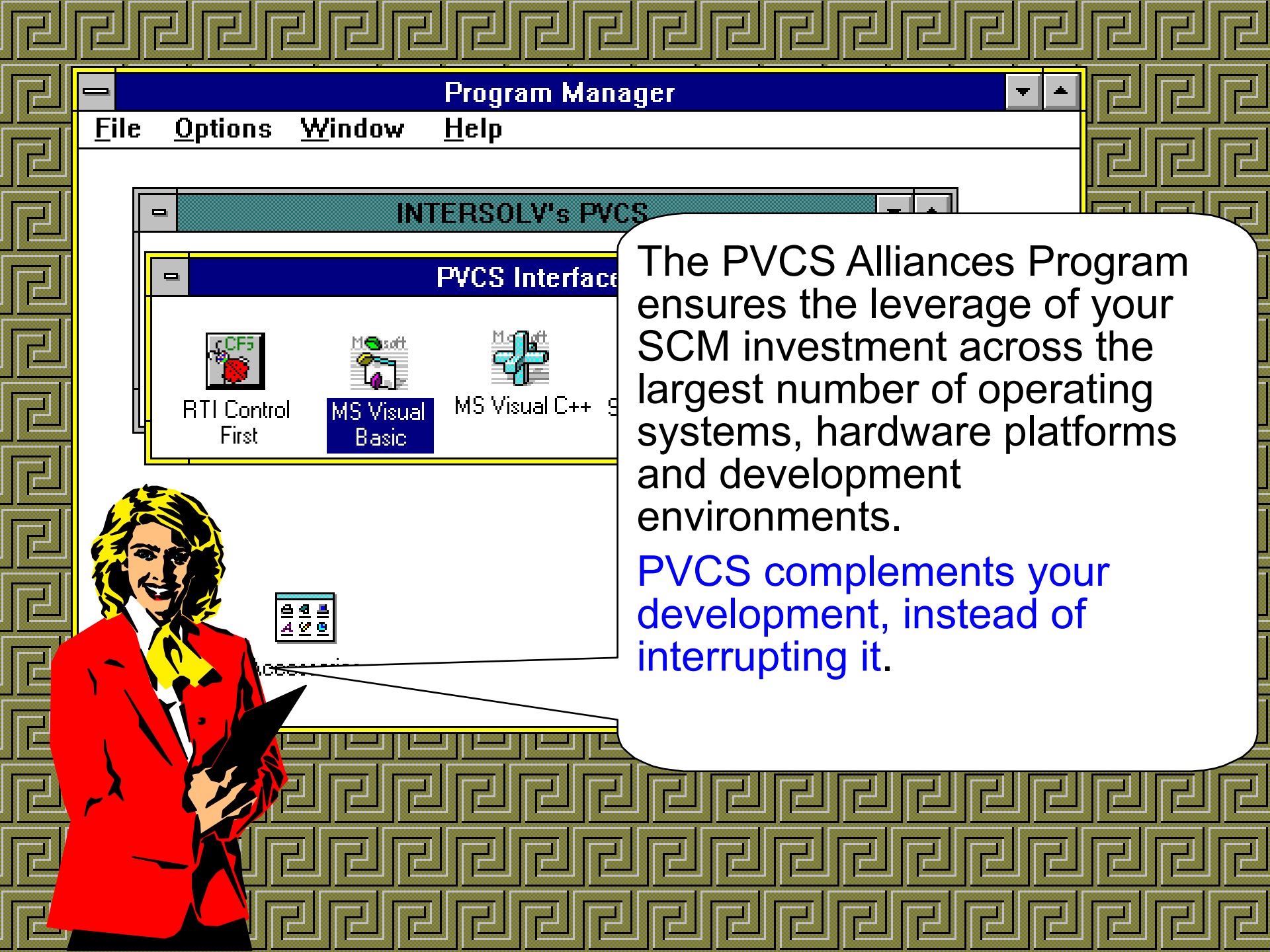
C Code
COBOL Co[illegible]
4GL Co[illegible]
Te[illegible]
Graphical Obje[illegible]
Binary F[illegible]
Executa[illegible]
Arbitrary [illegible]
Copyb[illegible]
Spreads[illegible]
and m[illegible]

[illegible]pes

Integration among platforms and tools is a key factor to success on the LAN.

INTERSOLV continuously updates this list with additional vendors, operating systems and development tools.

St[illegible]Ze Within and Across Projects


Program Manager
File Options Window Help
INTERSOLV's PVCS
PVCS Interface
RTI Control First
MS Visual Basic
MS Visual C++
The PVCS Alliances Program ensures the leverage of your SCM investment across the largest number of operating systems, hardware platforms and development environments.
PVCS complements your development, instead of interrupting it.

We just beat our Competition with a new system !

We just beat our Competition with a new system !
Our remote development sites are sharing resources !

We just beat our Competition with a new system !
Our remote development sites are sharing resources !
Our project schedules are under control !

We just beat our Competition with a new system !
Our remote development sites are sharing resources !
Our project schedules are under control !
Our maintenance team merges fixes into our production systems without problems !

We just beat our Competition with a new system !
Our remote development sites are sharing resources!
Our project schedules are under control !
Our maintenance team merges fixes into our production systems without problems !
Our auditors approved our quality procedures !

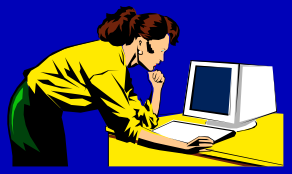
PVCS - The Market Leader for Software Configuration Management

- Used by over 150,000 developers at 11,000 sites worldwide
- A family of SCM tools
- Supporting Windows, OS/2, DOS, NT and a variety of UNIX operating systems

Simple to Implement/Effective Immediately

INTERSOLV Development Suite

New Development



Rapid Prototyping
Design driven

Existing Systems

Maintain
Extend
Redesign

Software Configuration Management

SCM

LAN

Server

Production Targets

Windows | OS/2 | OS 400 | UNIX | MVS | Client Server | Traditional

Broad Production Coverage

INTERSOLV Development Suite

New Development

Existing Systems

PVCS is one of many tools in the **INTERSOLV Development Suite**. For more information, please contact your local INTERSOLV representative or give us a call:

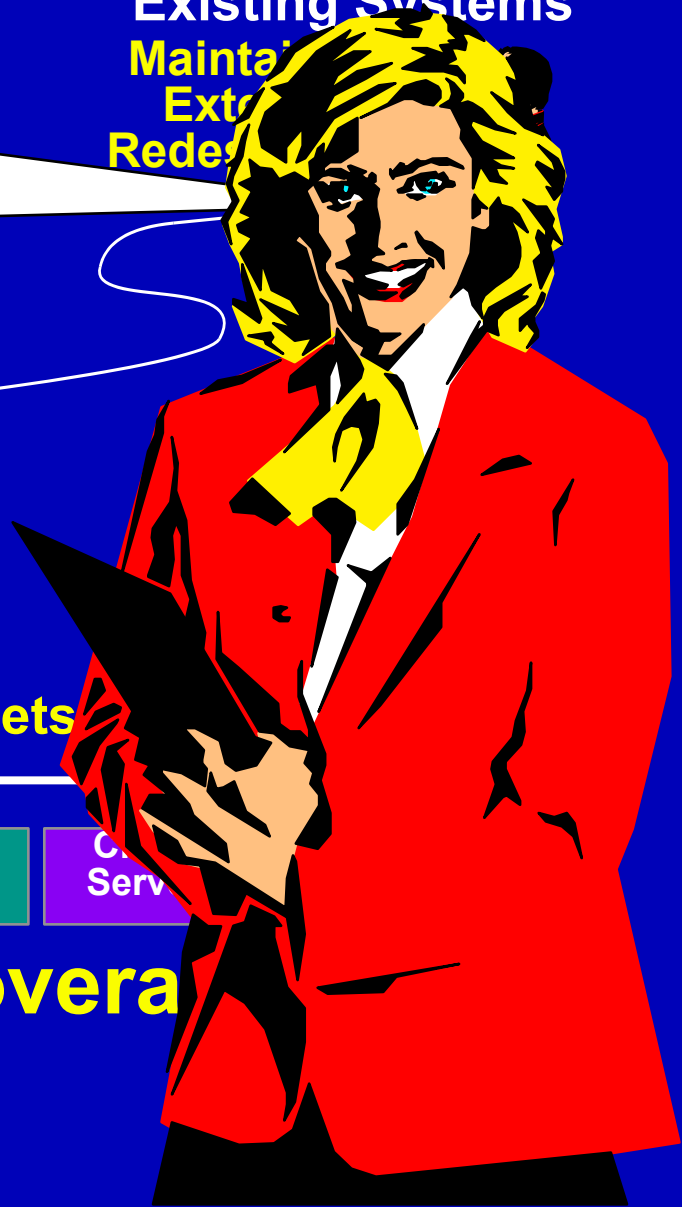
1-800-777-8858 (North America) 44 727 812812 (United Kingdom).

And please tell them Courtney sent you!

Targets

Windows | OS/2 | OS 400 | UNIX | MVS

Broad Production Covera



Your Edge in Software Development

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