From:	Bill Pope
To:	bradc; bradsi; keithw; rogersw
Cc:	billn; collinsh; debrav; pamk; vstevho; victorr; w-coll
Subject:	RE: Final Draft: OS/2, Windows 3.11 Q&A
Date:	Friday, March 04, 1994 4:45PM

Privilege Material
Redacted

From: Rogers Weed
To: Brad Chase; Brad Silverberg; Keith White
Cc: Bill Neukom; Bill Pope; Collins Hemingway; Debra Vogt;
pamk@or.wagged.com; Victor Raisys; Colleen Lacter
Subject: Final Draft: OS/2, Windows 3.11 Q&A
Date: Fri, Mar 4, 1994 3:47PM

Here is a draft of this that includes some comments from Collins and BradC
on tone. I'd like to send this out for posting on CIS first thing Monday at
latest, so please comment quickly.

Thanks...Rogers
===
Windows 3.11 Q&A

1. What is Windows 3.11? How is it different from Windows 3.1?

Microsoft Windows 3.11 is a "refresh" release that implements packaging
changes designed to reduce counterfeiting. The release also includes some
updated device drivers and a few bug fixes to address issues such as
diskless workstation support.

2. Why were these changes made?

It's been nearly two years since Windows 3.1 was introduced to the market.
These new drivers and bug fixes will improve the experience of a customer
buying
Windows for the first time. Also, these changes had already been
incorporated
in our Windows for Workgroups 3.11 release.

3. Who should update to Windows 3.11?

There is no new functionality in the 3.11 release of Windows and all of the
drivers being added or refreshed have been available on the Windows Driver
Library up on CompuServe and Microsoft's Download Service. So unless a
customer is having a problem related to one of the areas covered by the
fixes mentioned above, there should be no need for them to update to this
release. If a customer does need to update they should call Microsoft at
(800) 871-3270 for more information.

4. What is the difference between Windows 3.11 and Windows for
Workgroups 3.11.

Windows 3.11: Windows 3.11 is simply Windows 3.1 plus the additional
video and printer drivers and the five bug fixes described above.
As mentioned above, there is no new functionality or performance
improvements, features, etc.

Windows for Workgroups 3.11: WFW 3.11 offers a number of enhancements
to our Windows 3.1 product. WFW 3.11 includes enhanced performance,
from 50-150% faster disk I/O and up to 100% faster network access. It

Page 238

MS-PCA 2617968

CONFIDENTIAL

also includes integrated networking, Microsoft Mail, Microsoft
Schedule +, Microsoft At Work Fax, and Microsoft's Remote Access
Services, and a number of other enhancements for both standalone and
networked Windows PCs.

5. Does Win 3.11 work with OS/2 for Windows?

No it does not. From what we have been able to learn without the
benefit of source code, which IBM refused to provide Microsoft, OS/2
for Windows patches Windows in memory at fixed address locations. Such
a design makes OS/2 for Windows extremely fragile because it depends on
Windows code being frozen over time.

Microsoft encourages developers to write well-behaved Windows apps using
documented API's and good programming practices. By establishing these
ground rules
we can move the platform forward and maintain support for these
applications.
Windows 3.11 did not break any well-behaved applications that we are aware
of.

Though we regret the inconvenience to customers, IBM has to be responsible
for writing well-behaved applications -- they have taken shortcuts with OS/2
for
Windows that have put their customers in a bad position. We presume that one
or more
of the bug fixes incorporated in Windows 3.11 (which were included in
Windows
for Workgroups 3.11 released November 6, 1993) changed the fixed address
locations that are patched by OS/2 for Windows. As a result, OS/2 for
Windows
no longer runs correctly.

6. Did Microsoft do this to thwart IBM?

No we did not. We have been talking publicly about this release since August
of last year -- well before IBM even announced their OS/2 for Windows
product. Negotiations with Novell and a desire not to interrupt the
Christmas selling season caused us to delay, but Windows has been on the
market for nearly two years now and we felt that customers would benefit
from a refresh of the product.

7. What should customers do that have purchased OS/2 for Windows and want to
update to Windows 3.11?

IBM has the means at its disposal to permit purchasers of OS/2 for
Windows to use it with Windows 3.11. First IBM can release a new
version of OS/2 for Windows that patches Windows 3.11 at the
appropriate address locations in memory. Second, IBM can provide
customers with the KERNEL, USER, and GDI modules from Windows 3.1 that
do not contain the bug fixes which apparently are the source of the
problem. Alternatively customers can purchase the full OS/2 2.1 product from
IBM.

8. What about customers that buy Windows 3.11 and then want to run OS/2 for
Windows?

We think IBM bears the responsibility for designing OS/2 for Windows in
such a way that virtually guaranteed it would break if Microsoft made
any changes in Windows. Nonetheless, in an effort to assist our mutual
customers, Microsoft will provide purchasers of Windows 3.11 who
experience difficulty running the product with OS/2 for Windows with
the unimproved Windows 3.1 files which we modified in Windows 3.11 to
fix various bugs. Our Product Support Services will distribute these as

soon as a diskette can be made available.

9. What exactly are the code changes made to Win 3.11 and what do they do?

First the following drivers have been added or refreshed in the Windows 3.11 release:

- HPLJIV driver
- 256 Color generic SVGA video driver - which will support TSENG ET4000 chipsets and V7, but not ATI Ultra or S3 chipsets.
- As well as the following drivers:

PSCRIPT.DRV	UNIDRV.DLL
PSCRIPT.HLP	UNIDRV.HLP
HPPCL5MS.DRV	HPDSKJET.DRV
HPPCL5E.DRV	HPPCL.DRV
HPPCL5E.HLP	PAINTJET.DRV
HPPCL5E1.DLL	L100_425.WPD
HPPCL5E2.DLL	L300_471.WPD
HPPCL5E3.DLL	L300_493.WPD
HPPCL5E4.DLL	L500_493.WPD
HPPCL5EO.DLL	L200230&.WPD
FINSTALL.DLL	L330_52&.WPD
FINSTALL.HLP	L630_52&.WPD
EPSON24.DRV	EPSON9.DRV
V7VDD.386	V7VGA.DRV

In addition, the following 5 files were changed:

1) krnl386.exe: Minimal kernel changes to more gracefully shut down the Windows system after installing some 3rd party hardware (which call for Windows to shut down before returning focus to program manager).

2) gdi.exe: Changes which assist ISVs currently writing graphics applications, especially those that call the 'draw rectangle function'. This will minimize the number of API calls the programmer needs to write and maximize the system resources available on the system when using graphics intensive applications.

3) commdlg.dll: Changes which allow Windows apps on diskless workstations to use common dialog boxes. (Formerly available as a PSS application note)

4) pscript.drv & unidrv.dll: Updated to eliminate a font enumeration conflict that occurs with many word processors when 60 or more fonts are used in a single document. (Formerly available as a PSS application note)

5) vtda.386: The updated vtda.386 solves a very small percentage of timer related problems that occur when starting an MS-DOS based application under Windows on large Novell Netware networks. (Formerly available as a PSS application note)