Depo. Ex. 291

PLAINTIFF'S EXHIBIT 972

# User Message follows

Out-from sunday 9/22 through thursday 9/26. I'll try to check e-mail daily, but if it's time critical please contact booky frandson. thanks

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From robbo Tue Sep 24 10:07:31 1991

To: Adam't Alexin Andersk Andys Bernard's BethDe Billidi Billispa BehH Bobke

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Subject: OEM BRIEFING, PART 1

# DESCRIPTION

Date: Tue Sep 24 10:03:53 1991

The following is an overview of the 1991 OEM Briefing (Sept 16 & 17 in Senttle). It contains the following sections:

- OPM Briefing Overview
- Location of Briefing materials
- Detailed outline of Steve Balmer's Systems Strategy presentation (a great overview of the entire briefing all of the other presentations build off of Steve's)
- Edited transcript of SteveB's Q & A session following his presentation

I will be sending another email with highlights from other sessions.

# BRIEFING OVERVIEW:

Dates: Sept 1

Sept 16 & 17

Location: Convention Center, Seattle

# Customers: >200

A considerable amount of "new" (as in previously undisclosed) information was discussed at the briefing

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A. No. 2:96CV645B

Plaintiff's Exhibit

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#### including:

- Sound / Media control from MM extensions will be in Win 3.1
- "Windows Networking" [1992 time frame]
- poor to poor networking (file/print sharing) in Windows
- email services built into Windows
- network DDE
- data access services (to allow users to browse databases from with in Windows ago), etc.
- -DOS 6 was discussed in considerable depth
  - Features: pre-emptive multitasking, threads, better membry management, networking services, protect mode device driver model, etc.)
- It was disclosed that "Windows 4" (not official name) will require DOS 6 as it will depend on DOS for key services listed above.

Also, we were direct about the fact that IBM and MS are now competitors. We did share a few ideas on the Guits in IBM's strategy and products [OS/2].

#### **BRIEFING MATERIALS**

Slides: \ahousted9 i\_shro, \OEM\_91 subdirectory

## SYSTEM STRATEGY, Steve Balliner

Names in [] indicate the speakers who covered these topics in greater detail.

- Last year's accomplishments
- DOS 5
- Windows 3.0 momentum, QLE
- Windows-focused strategy
- We will evalved Windows to exploit Networking. Voice. multimedia, objects -> NO TECHNICAL DISCONTINUITY
- . Networking ramp up
- ->500 people selling and supporting network products
- Different covironment than 12 mo. ago MS and IBM are not working together
- PC sales date
- Continued industry growth, 6-8% unit growth per yr.
- Shipments overhelmingly 386 and above
- Good for MS: richer platform to sell our sultwase Good for OEMs: higher end systems, more opportunity for value added
- OS market perspective
   Windows installed base is <10% of DOS base and yet apps</li> sales are about 30% Growth is in the Windows Mint

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- # 1 focus of SW vendors is Windows! Installed Annual run Jan-Jan 1991 Base (1) Rate (1) Apps volume (2) Windows 5.0M MS-DOS 73.0M 7.8M \$426M 18.0M \$1,410M

Mac 5.0M 1.9M 5296M PC UNIX .7M Mt.

OS/2 .7M .9M \$35M (1) Source: IDC, (2) Source: SPA

- Windows customer characteristics (from telephone survey)
- 65% have 386/486, 75% have VGA or better
- 40% have 3+MB
- 30% neliworked, 50% own moderns
- Opportunities for OEM Innovation
- Entry Systems
- Build in sound
- Build in media control (to operate other household peripherals)
- Support Pen
- Mainstream desistop & portables (in addit to Entry list)
- Better grpables
- Multimedia support, CD-ROM
- Duild in networking
- Paster disk system
- Workstations / servers
- Very high end graphics
- Multi-processor, hage capacity (disk, memory)
- Tape & networking subsystems
- Windows J. I [RICH ABEL]
- · "Fine tuning Win 3.0" based on cust. feedback
- Improved unability, performance, robustness
- 32-bit protect-mode device drivers ("VxD")
- TrueType
- Sound / modia control (from MM extensions) included
- ISVs can rely on sound APIs being there
- Win 3.0 competible
- Windows extensions
- Windows for Pen [PRADEEP SINGH]
- Important because (1) pen is more intuitive pointing device then mouse, (2) "gesturing" (coample: crossing out some text to indicate a delete), (3) handwriting recognition for note taking, filling out forms.
- Supports all existing Windows applications
- Easbles "Pen Centric" applications
- Multimedia (ROB GLASER)
- MM extensions 1.0 just shipped, works w/ Win 3.0
   Win 3.1 doesn't have all the MM support there will still continue to be "multimedia extensions"
- Will consist of: CD-ROM file system, animatics. additional media control drivers (video disk, VCR), additional applets
- Windows Networking [JOHN LUDWIG]. Most portions of it avail in 1992,
- Peer to peer actworking (file/print sharing) will be

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- supported in Windows
- Mail services built into Windows
- Network DDE, Netware coanactivity
- Data access services: browse databases from with in Windows apps
- Open architecture: additional "back end" services (ex: Profs gateway) can be written by 3rd parties.
- LAN Manager [MIKE MURRAY]
- What we've learned in the past year:
   Networking is absolutely fundamental (as per customer conversations), that is why we are building it into Windows
- There are these distinct costomers
- End users: went things to be simple
- System Admine want the tools to manage net
- Developers: went standard APIs
- Especially focusing in on System Admins they are often the "buyers" of the system
- LAN Manager & Windows networking
- LM style file & printer sharing type services will be build into Windows
- Windows users will still be able to interface with LAN Manager servers.
- LM it a superset of Windows Networking -- it will focus on the additional features / services that are vital to admins (rooting / additional transports, advanced admin, enterprise integration, additional device support)
- Improved File System
- Totally FAT compatible
- 386 code for performance
- Written as protect mode VxD (virtual device driver) so (I) increased performance, and (2) moves file system out
- of in IMB. - Additional utilities like defragmentation and compression
- Timetable: out beyond Win 3.1, probably part of DOS 6
- Windows NT [PAUL MARITZ]
- Self contained OS doesn't require any version of MS-D05
- Totally compatible w/Windows (UI, APIs)
- Started from straich of no limitations imposed on team
- Under development for past 3 yrs, lead by Dave Cutter of VMS fame. Very modern OS design.
- Portable (can be moved to other microprocessors), 32-bit
- Secure (C2 initially), fault-tolerant, multiprocessor enabled
- All extensions (Pen, Multimedia) supported
- Huge capacity file system, no system limits (# threads, etc.)
- Windows: a scalable platform
- We are doing in software in the 1990's what Digital did with handware in the 1980's
- Single user interface, single programming model

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- Multiple implementations (DOS/Win, Win NT)
- Timeline
- DOS 6 in 1993
- Windows 3.1 in 1991, Win 3.1 w/extensions in 1992
- Windows 4.0 in 1993
- Windows NT 3.1 in 1992, Win NT 4.0 in 1993
- LAN Manager & server-based apps on NT in 1992
- Windows in 1992

Entry Systems &

Workstations &

mainstream desk / portables Servers

API Win-16 & Win-32 subset\* Win-16 & Win-32

Wist-16 extensions

Win extensions

Kernel MS-DOS 5

**New Technology** 

Modes Standard, enhanced

NT

Product Windows 3.1

Windows NT 3.1

 Win-12 subset hosted on top of Win-16 via compiler support

- Windows in 1993

Entry Systems &

Workstations &

mainstream desk / portables Servers

API Win-16 & Win-32

Win-16 & Win-32

Win extensions Kernel MS-DOS 6

Win extensions New Technology

Modes Standard, enhanced

NT

Product Windows 4.0\*

Windows NT 4.0

- \* Will require 386 or better precessor
- MS-DOS 6 IBRADSII
- Will be 100% compatible w/ DOS 5
- Windows synchronized OS features -- Windows will depend on DOS 6 for key services.
- Pre-emptive multitasking, threads
- Better memory management
- Networking services
- Will have additional utilities (like enhancements to batch language such as looping constructs)
- Better multitasking of MS-DOS applications
- Protect mode device driver model
- Basis for Win-32
- Advanced Windows Services (BELL GATES)
- Object-oriented user interface. Move from "application centric" to "information centric" model.
- Info services: file system will allow you to query,
- browse, find info easily
- Integrated object management system (builds off of OLE)
- Native distributed computing model (directory services, security build in)
- Advanced system management support (more manageable on large networks)
- Windows Enterprise Integration
- Windows is better integrated (3270 support, network support, etc.) than any other OS as software vendors
- ISVs know that Windows is the market

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- IBM's FUD (fear, uncertainly, and doubt) that Windows will not work in enterprise systems is not true
- MS People investment
- 1200 people involved in development and ISV marketing for Windows related systems products. # docsn't include product support and field sales
- Windows marketing and support
- Spending \$31M for advertising and marketing as well as \$34M for product support over next 12 mg.
- Many seminars, resource kits, trade shows, etc.
- MS will embark on aggressive OS/2 -> Windows "UPGRADE"
- OS/2 users -> Windows
- OS/2 applications development -> Windows
- Sell Windows developer's kits to OS/2 developers
- Run workshop to help people w/ OS/2 investements switch to Windows
- OS/2 subsystem for Windows NT
- Windows OEM options (JON LAZARUS)
- Testing for Windows competibility
- Use Windows logo
- Participate with MS's Windows marketing programs
- Licease / pre-install Windows. Preinstaliation is #1 source of product support questions. Only OEM can deliver basels free system.
- Build machines optimized for Windows
- Competition
- Everyone wants to be in the OS business. We are the only one with an INTEGRATED strategy, Windows.
- Competitions
- IBM (MIS FUD). Lots of changes in the past 12 mo. "IBM decided that OS/2 had to go into broad competition with Windows". Customers are "encious about IBM's strategy", they "used to think the strategy was OS/2" but many are unsure w/ the new IBM/Apple announcement.
- IBM / Apple. "By joining, they are saying that it isn't possible to extend their existing OSs -- they need a new ose. Probably won't be out until 1994."
- SUN, SCO, OSF., AIX (UNIX). ">100 companies are building high end solutions around UNIX, incompatibilities..."
- GO
- Novell
- 03/2 What to do
- OS/2 is "check box" customers will want to know an OEM supports it but most all will buy Windows.
- Suggested OEM strategy: Make sure you're system runs the IBM OS/2 2.0 package; don't bother w/ your own adaptation. Resources better speat elsewhere.
- MS continues to license OS/2.
- We'll take OS/2 2.0 code we receive from IBM and ship to OEMs
- The level of support for QS/2 2.0 will be more timited than w/ cartier releases.

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- We'll pass bug reports to IBM MS not in a position to "fix" the code we receive from IBM.
- Limited MS adaptation support (LADOR drivers): IBM is not licensed for LADDR; MS will continue to supply to OEMs.
- CS/2 constituents
- OS/2 tied to IBM hardware strategy: OS/2 is there to help IBM sell their hardware
- OS/2 quality: we don't believe IBM will be able to ship a "better Windows that Windows" in 1991. The current level of Windows support in OS/2 2.0 betas isn't great (Win apps run in separate acrees group, so DDE or OLE, 2 separate sets of drivers, etc.)
- Windows Strategy
- Evolutionary no technical discontinuity
- Scaleble
- Open in the PC tradition
- MS long term commitment
- Driver by LAYF vision

# Sieve Balimer Q & A

- Q: Many OEMs have OS/2 agreements and have been unsuccentful meeting minimum commitments MS give rebate or apply lost \$5 to Windows?
- A: MS scutely aware of situation. We are anxious to migrate commitments you made on OS/2 over to Windows and Windows extensions. Since each OEM sinuation different, we are working out this issue on an account by account basis. Account managers have been instructed to work with you on this.
- Q: Will DOS 6 require a 386 or better? A: No. Our current thinking is that DOS 6 will have two modes: one for \$086/286 systems, another ("enhanced mode") for 386.
- Q: Will DOS 6 and Windows 3.1 have two separate sets of device drivers? What about Windows NT device drivers? A: Yes, DOS 6 and Windows 1.1 32-bit VnDs are a laundred percent compatible. There will be a another set of drivers for Windows NT. We are even looking at getting some sharing these but I can't promise it today.
- Q: You led the OEMs in the last firm years down the OS/2 path. We bought into that strategy & made some very significant commitments. You commented that Microsoft will simply pass any reported bugs in OS/2 to IBM and wen't fix them. Is that part of your new customer support strategy?
- A: No let me be clear. We will fix bugs in OS/2 1.3. Absolutely. With OS/2 2.0, we'll pass bugs back to IBM -

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 we will not have a team to fix those. The installed base that you have out there is all of course, OS/2 1.3.
 We will not encourage customers to move from OS/2 1.3 to OS/2 2.0. We will encourage them to stay with OS/2 1.3 and if sometime when they want to move, they should move to Windows.

- Q: You will license OS/2 2.0 but you will not support it?
  A: We will use the system we have in place to work with IBM to get them fixed, we will not have a staff here fixing bugs in 2.0.
- Q: Beyond OS/2 2.0, will Microsoft continue to cross license the OS/2 technology from IBM?
- A: MS and IBM have a cross licensing agreement which extends for several more years into the future. We will in no way encourage any customer to buy OS/2, but we continue to have a license with IBM and we want to continue to work with you to make sure that you can check the checkbox that says OS/2 is available on your hardware.
- Q: OEMs that have written applications to Presentation
  Manager (PM) do you have any plans for tools or
  adaptation kits to make the migrate to Windows NT easier?
- A: We have the migration sub system which will work for OS/2 character mode applications in '92 and which we will move to also support PM '93. For somebody who is serious about a Windows strategy but presently has PM applications, we do have a team of people who we can dispatch, come on site, help review your code with you, and give you advice. Also, we'll run a semisar for your team on migrating your applications from PM to Windows. If you are in that situation, please let your account manager know.
- Q: What operating system do you think we should be running on our LAN Manager servers today?

  A: OS/2. We will include an enhanced version of OS/2 1.3 in the LAN Manager 2.1 box. OS/2 does a good job in that environment. Next year we will also support Windows NT. I think there will still be a range off customers who want OS/2 on the server into the future so LAN Manager will continue to support that direction.
- Q: Windows NT sounds an awful lot like what you used to call OS/2 NT explain the differences?
- A: It's exactly the same hernel, it's exactly the same code to run DOS, Windows, and POSIX applications. As far as its ability to run existing OS/2 applications, there have been some modifications to our strategy. First, we are now calling the software that runs existing OS/2 apps under NT a "migration system" instead of "sub system" because we've not sure what IBM may do in 2.0 to make it hard for us to be compatible. For the same reason, it is

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a dangerous strategy for us to call the thing "OS/2" and include the migration system as a built in piece of the OS. Second, we are only committed to have that things be compatible through OS/2 2.0 -- we don't want to get caught in an endless "better OS/2 than OS/2" trap as we try to match IBM's every move (without their Cooperation).

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From jody's The Sep 24 10:09:41 1991

To: bradel

Subject: Re: FW: Documentation Review Date: Tue Sep 24 10:09:05 PDT 1991

Hey, I understand. I made the same choice when I was in the Windows group.

. But I think we all med to step back and realize that by making the decision to focus on the shipping of the retail product we ALWAYS impact the toolkits. And this is VERY costly, as you are seeing. (at least a few million each year when you consider our PSS costs and the estimated costs to run the MSDP)

Maybe we should get smart and be hardcore about having a dedicated group of people working on the retail product and a dedicated group of people working on the SDK.

>From bradsi Tue Sep 24 09:47:47 1991

To: jodys

Subject: Re: FW: Documentation Review

Date: Tue, 24 Sep 91 09:45:52 PDT

you have a point but you are also overstating the case. we really need to get win 3.1 out the door, and coming in to review the docs is not some casual optional thing.

From paulha Tue Sep 24 10:13:00 1991

To: brade

Subject: RE: LONG MAIL: Notes on DR PORUM 9/19-9/23

Date: Twe Sep 24 10:12:36 pdt 1991

How? Would you want me to call him, or have our person on the forum reply to him? Is it a secret that we have someone on the DR forum listening in? If not, then I say lets let him know.

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