Update on
IBM Hardware with OS/2 Support and OS/2 Device Drivers

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Agenda

- IBM Hardware with OS/2 Support
  - Thinkpads
  - NetVista Desktops
  - eServer xSeries
- OS/2 SWChoice & Fixpacks
- OS/2 Device Driver updates
- Other interesting stuff

IBM ThinkPad Family for 2002/2003

ThinkPad

e-business

X Xtreme / Ultraportable

- ✓ extreme thin, very light
- ✓ 12.1" TFT, 1.6 kg
- ✓ X24 / X30

OS/2 WARP

T Travel

- ✓ perfect balance of mobility and performance
- ✓ 14.1" TFT, 2.2 kg
- ✓ T23 / T30

R Ready to Run

- ✓ your mobile entry
- ✓ 13.3 & 14.1" TFT, 2.4 kg
- ✓ R32

A Desktop Alternative

- ✓ High-performance desktop-alternative
- ✓ 14.1" & 15.0" TFT, 3.3 kg
- ✓ A31 / A31p

IBM

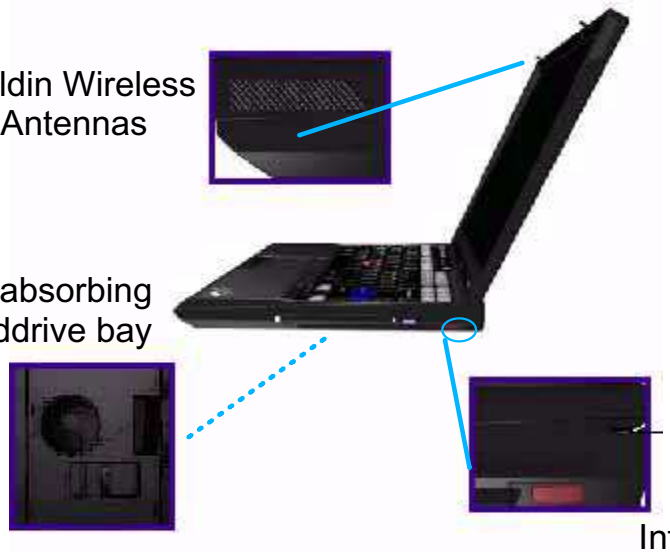
IBM ThinkPad T30 features

Kensington lockup

colored Audio-interfaces

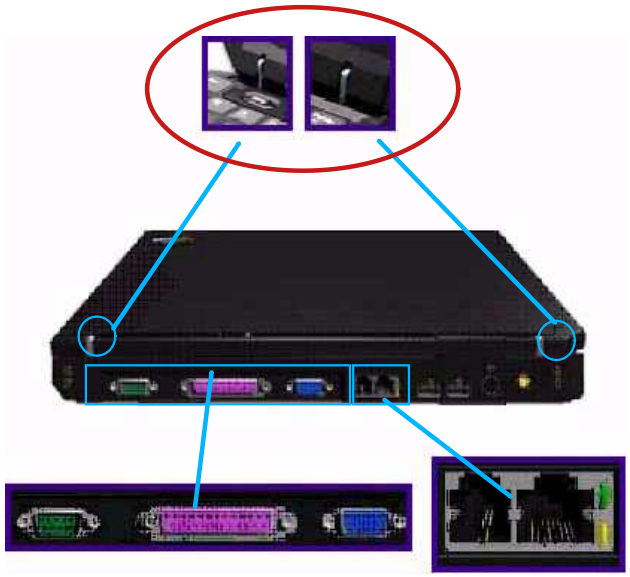
buildin Wireless Antennas

shockabsorbing harddrive bay



Infrared

Metal-hinges



colored interfaces

Ethernet LED

New Design of ThinkPad Buttons and volume control

Bluetooth display

UltraNav (Touchpad and TrackPoint)

Internet navigations keys

Comparsion ThinkPad T23 and T30

Specifications	ThinkPad T23 (April Announce) Workhorse	ThinkPad T30 Workhorse	Comments
TFT Display	14.1" XGA	14.1" XGA	
Max. Resolution	1024x768, 16M (XGA)	1024x768, 16M (XGA)	
Graphics Chipset / VRAM	S3Graphics SuperSagvage IXC, 16MB	ATI Mobility Radeon 7500, 16MB	ATI chipset provides better scaling
Processor	Pentium III-M - 1.2GHz	Mobile Pentium 4 - M - 1.8/2.0GHz	
System Memory / Max	256MB / 1GB	256MB / 1GB	
Memory Type	PC 133 (133MHz)	PC 2100 DDR (266 MHz)	DDR memory can process two calculations per clock cycle
HDD	40GB	40GB	
Optical Drive	8X DVD	8X DVD	
10/100 Ethernet	Yes (CDC Slot)	Yes (Soldered on Planar)	Soldering on planar frees up the CDC for Bluetooth
Modem	V.92 Designed	V.92 Designed	
Integrated 802.11b Wireless	Select Models	Select Models	T30 is available with Intel or Cisco 802.11b
Integrated Bluetooth	No	Available via special bid	T30 Wireless leadership model comes with Bluetooth standard
Dimensions	12" x 9.8" x 1.3"	12" x 9.8" x 1.4"	T30 is slightly thicker to allow for higher-wattage Pentium 4 Processor
Weight (Trvl / CD or DVD)	4.6lbs / 5.0lbs	5.0 lbs / 5.4lbs*	
System Battery Type / battery life	6 cell Li-Ion / 3.5 hrs	6 cell Li-Ion / 2.5 hrs*	
Ultrabay Plus	Yes	Yes	T30 does not support WorkPad charging in the Ultrabay cradle
PC Card Slots	2 TII or 1 TIII	2 TII or 1 TIII	
Chipset	Intel 830MP	Intel 845MP	New Intel 845MP core chip set
FSB Speed	133 MHz	400 MHz	Improved bus speed
Parallel/2 USB/VGA/Serial/S-Video Out/PS-2	Yes/Yes/Yes/Yes/Yes/Yes	Yes/Yes/Yes/Yes/Yes**No**	No PS/2 port on system. PS/2 supported via dock and port rep
RJ11/RJ45	Yes / Yes	Yes / Yes	T30 RJ45 has LED indicators
Audio (head ph/mic/line-in) / Infrared	Yes / Yes	Yes / Yes	
UltraPort	Yes	**No**	No UltraPort on T30
ThinkLight	Yes	Yes	
UltraNav Dual Pointing System	No	Select Models	New Feature for T30
IBM HDD Shock Absorber	No	Yes	New Feature for T30
Floppy Drive in Ship Group	Yes	**No**	
DVI	No	Supported through Dock and Port Repllicator	No DVI port on system, but T30 supports via Dock and Port Rep
ThinkPad Button	Yes + volume cntrl	Yes + volume cntrl	
Port Rep / Dock Support	Yes	Yes	
Security Subsystem	No	TCPA-Compliant (On Wireless Models)	Available via special bid on all models. Standard on T30 Leadership and Wireless Workhorse models

IBM Thinkpad T23 Driver Support

Feature	Chip	PCD	optional
Video	S3 SuperSavage IXC	S3 Driver	SDD/se 7.10 Snap 2.0
Sound	Crystal Audio AC97 CS4399	Crystal Driver 5.01	
Ethernet	Intel PCI 10/100	e100b.os2 V4.35 (APM Problems)	cust. e100b.os2
PCMCIA	TI PCI1420	none	DDPak
USB	UHCI	none	DDPak
Modem	WinBond "Scorpio"	none	none
DVD/UDF	Matshita	none	DDPak
InfraRed	2Mb	none	DDPak
Trackpoint	TP4	none	merged DD on DDPak
Bluetooth	no info	none	none
Firewire	not implemented	NA	NA
Wireless	mPCI (Prism)	none	

All OS/2 Support from PCD is on Thinkpads:

http://www.pc.ibm.com/gtechinfo/TPAD_MATRIX.ht

IBM Thinkpad T30 Driver Support

Feature	Chip	PCD	optional
Video	ATI Rage Mobility Radeon 7500	SDD 7.0.9 based	SDD/se 7.10 Snap 2.0
Sound	Analog Devices ICH SoundMax Digital	AD Driver 3.07a	
Ethernet	Intel PCI 10/100	e100b.os2 V4.35 (APM Problems)	cust. e100b.os2
PCMCIA	TI PCI1520	none	DDPak
USB	EHCI	none	DDPak
Modem	WinBond "Scorpio"	none	none
DVD/UDF	Matshita	none	DDPak
InfraRed	2Mb	none	DDPak
Trackpoint	TP4	none	merged DD on DDPak
Bluetooth	no info	none	none
Firewire	not implemented	NA	NA
Wireless	mPCI (Prism or Intel)	none	

All OS/2 Support from PCD is on Thinkpads:

http://www.pc.ibm.com/gtechinfo/TPAD_MATRIX.ht

IBM ThinkPad Options

Ultrabay 2000

Shared options across X, T, R and A Series:

- ThinkPad CD-RW/DVD Combo II Drive
- ThinkPad Ultrabay 2000 Li-Ion Battery (only on A & T Series)
- ThinkPad SuperDisk (LS-240)
- ThinkPad Zip 250MB Ultrabay 2000
- ThinkPad 2nd HDD Adapter with choice of 20GB, 40GB or High Speed 60GB HDD's

NEW!

Integrated Wireless

- The IBM High Rate Wireless LAN Access Point 500 rounds out your integrated wireless solution.
- IBM High Rate Wireless LAN PC Card III
- IBM High Rate Wireless mPCI Card

UltraPort Connector

A great location to attach options like:

- IBM UltraPort Camera II
- IBM UltraPort Compact Flash Reader
- IBM UltraPort Digital Array Microphone
- Bluetooth UltraPort Module by IBM

IBM Memo

- Boost your systems performance by adding PC2100 DDR SDRAMM SoDIMMs to T30 and A31 Series notebooks

T23 only !

Ultrabay Plus

Additional expansion capability :

- ThinkPad Ultrabay Plus Device Carrier (required to use keypad and cradle)
- ThinkPad Ultrabay Plus Numeric Keypad
- ThinkPad Ultrabay Plus Cradle for the WorkPad c500 Series

PC Card Slots

- Bluetooth PC Card II from IBM
- IBM 16/4 Token -Ring CardBus Adapter
- ThinkPad USB 2.0 CardBus Adapter

Ultraportable Storage

NEW!
NEW!

Stay connected with a variety of options:

- IBM USB 2.0 Portable CD-RW Drive
- IBM Portable 20GB USB 2.0 Hard Disk Drive
- IBM Memory Keys

Flexible Expansion Options

- ThinkPad Port Replicator
- ThinkPad Dock
- UltraBase X2 media slice

NEW!

IBM Data/Video Projectors

Now everyone in the room can see what's on your ThinkPad

- IBM iLM300 MicroPortable Data/Video Projector
  IBM iLV200 ValueBased Data/Video Projector
- IBM iLC200 Conference Room Data/Video Projector
- Spare lamps

NEW!

Carrying Cases

- ThinkPad Nylon Carrying Case (US & CAN)
- ThinkPad Premiere Leather Carrying Case (US, CAN & EMEA)

✓ IBM offers a complete line of options for its ThinkPad family

✓ Compatibility tested and supported on ThinkPad notebooks

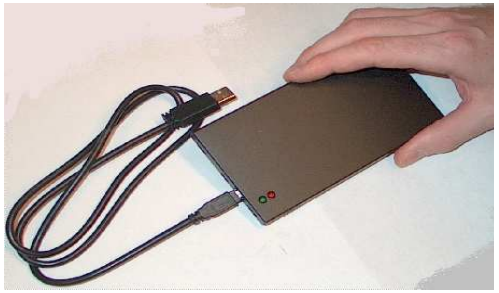
Latest News on Thinkpad Options

- Portable USB 2.0 CD-RW-drive
  - 24/8/4-speed read/write/rewrite on USB 2.0
  - 6/4/2-speed read/write/rewrite on USB 1.1

- USB 2.0 CardBus-Adapter (no OS/2 support planned)
  - 2 Connectors for USB 2.0 and USB 1.1
  - support for Low Speed/Full Speed/High Speed (1,5/12/480 MBit/s)
  - Typ II CardBus-Schnittstelle

- USB 2.0 Hard drive (no OS/2 support planned)
  - 20 GB hard drive
  - Rapid Restore Software on protected area of drive
  - no power supply needed
  - Highspeed Datentransfer on USB 2.0, compatible with USB 1.1

- 128 MB USB Memory Key



IBM NetVista Desktops

- Today, NetVista M-Series systems are supported by OS/2.
  - NetVista M41 with nVidia 16MB Vanta graphics AGP 4x adapter (Small Form Factor, Desktop and Micro Tower)
  - NetVista M42 with integrated graphics only (Mini Desktop, Small Form Factor, Desktop, Micro Tower)
- For this product family OS/2 support is a MUST REQUEST!

NetVista M41 Hardware

- Pentium 4, 1,4 GHz - 2GHz
- Intel 845 chip, 4 x 100MHz FSB Proc->MemBus
- 256KB L2-Cache
- 133MHz SDRAM, max. 1,5 GB, 3 DIMMs
- 20/ 40 GB Hadrdrive U-IDE 100
- AGP 4x slot
- no on-board graphics, but nVidia Vanta 16MB PCI card
- Integrated Ethernet Controller 10/100
- Integrated Audio Chip
- Integrated speaker
- 2 serial, 1 parallel interfaces
- 4 USB-interfaces (2 front, 2 back)
- Wake on USB, Wake on LAN, PXE
- 3 PCI full length
- CD 48x speed
- Line-In, Line-Out and Mic
- Software Selection CD
- OS/2 support
- Lotus SmartSuite Licence
- Support for LCCM, SMA, SDA and UMS

IBM NetVista M41 Driver Support

Feature	Chip	PCD	optional
Video	ATI Radeon or nVidia	none for ATI, old IBMGRADD for nVidia	SDD/se 7.10 Snap 2.0
Sound	ADI SoundMAX	SoundMAX 3.1.1	
Ethernet	Intel PCI 10/100	e100b.os2 V4.35 (APM Problems)	cust. e100b.os2
USB 1.1	OHCI	none	DDPak
Modem	Conexant Winmodem	none	none
Scrollpoint	Scrollpoint	Scrollpoint 2.01	merged mouse-driver on DDPak / CP2

All OS/2 Support from PCD is on NetVista:

http://www.pc.ibm.com/qtechinfo/MIGR-4MVU6P.html?lang=en_US&page=brand&brand=IBM+NetVista&doctype=&subtype=

NetVista M42 Hardware

- Pentium 4-2,0/2,2/2,4Ghz
- Intel 845G chip 400/533 MHz FSB
- 512KB L2-Cache
- 266MHz DDR, max. 2,0 GB, 2 DIMMs
- 40 GB Harddrive U-IDE 100 (7.200rpm)
- AGP 4x slot
- Integrated graphics
- Integrated Ethernet Controller, with Gigabit on selected models
- Integrated Audio Chip
- Integrated speaker
- 2 serial, 1 parallel interfaces
- 6 USB-interfaces, USB 2.0 (2 front, 4 back)
- CD 48x speed
- Line-In, Line-Out and Mic
- XP Pro preinstalled
- OS/2 support
- Lotus Notes Client License
- Lotus SmartSuite License
- RDM, SMA, SDA and Director Agent supported
- Available as:
  - Ultra small
  - small
  - desktop
  - micro tower

IBM NetVista M42 Driver Support

Feature	Chip	PCD	optional
Video	ATI Radeon or Intel Extreme	none for ATI, Intel GRADD 2.19	SDD/se 7.10 Snap 2.0
Sound	ADI SoundMAX	SoundMAX 3.1.1	
Ethernet	Intel PCI 10/100VE	e100b.os2 V4.35 (APM Problems)	cust. e100b.os2
USB 2.0	EHCI	none	DDPak
Modem	Conexant SoftK56	none	none
Scrollpoint	Scrollpoint	Scrollpoint 2.01	merged mouse-driver on DDPak / CP2

All OS/2 Support from PCD is on NetVista:

http://www.pc.ibm.com/qtechinfo/MIGR-4MVU6P.html?lang=en_US&page=brand&brand=IBM+NetVista&doctype=&subtype=/

IBM eServer xSeries

- OS/2 is supported on selected models
  - Small: x220, future x225
  - Medium: x232, future x235

- Support is for "legacy mode", means that new features might not be supported or might be supported only in emulation mode. Examples include, but are not limited to:
  - 32 bit emulation mode on an IA-64 bit system
  - 4 GB usable memory limitation on a system capable of greater than 4 GB
  - PCI compatibility mode operation on a PCI-X machine

IBM eServer xSeries Support for OS/2

A "✓" means the operating system is supported by IBM.

However, a "✓" does not imply that the network operating system will work under all combinations of hardware and software.

IBM Operating Systems																	
Model:	x440-8687	x380-8683	x370-8681	x360-8686	x350-8682	x345-8670	x342-8669	x335-8676	x330-8674	x330-8675	x305-8673	x255-8685	x250-8665	x235-8671	x232-8668	x220-8645	x205-8480	x200-8481
4690 Operating System																		✓
OS/2 Warp Server for e-business							✓								✓	✓		
OS/2 Warp Server Advanced V4 - SMP																✓		
OS/2 Warp Server Advanced V4							✓								✓			

Uni to 4-way Universal/Tower Product Offerings

e-business

IBM xSeries delivers a broad choice of universal platforms for small business, departmental and distributed computing workloads!

x205 Uni
Cost Optimized for small business and retail

- Uni P4
- 2GB SDRAM
- 32-bit PCI
- Fixed Drive Models
  - IDE/SCSI
- Hot Swap Drive Models -3
- Basic Systems Management

x220 2-way
Value performance for small and medium business

- Dual PIII Processors
- 4 GB SDRAM
- 64-bit PCI
- Hot Swap Bays - 3
- Ultra 160 SCSI
- Basic Systems Management
- Diagnostic LEDs

x235 2-way
Features to support mainstream business applications

- Dual Xeon Processors
- 6 GB DDR Memory
- Hot Swap Bays - 9
- Full Height Removable Bay
- Active PCI
- Dual Channel Ultra 320 SCSI & int. RAID 1, low cost RAID 5
- Hot Swap/Red. Cooling & Power
- Integrated Service Processor
- Light Path Diagnostics

x255 4-way
Highly expandable for missi critical applications

- 4-Way Xeon MP Processors
- 12GB Chipkill RAM
- Hot Swap Bays - 12
- Active PCI
- Dual Channel Ultra-2 SCSI
- Gigabit Ethernet
- Hot Swap/Redundant Powe
- Integrated Service Process
- Light Path Diagnostics
- 7U form factor

x220 Feature Overview

e-business

Power

- Intel PIII 2-Way SMP (Up to 1.4Ghz)
- Optional ServeRAID-4 Support
- Integrated 10/100 Ethernet

Scalability

- 128MB ECC Memory (up to 4GB)
- Up to 293GB SCSIInternal Storage
- 7 Bays: 2x3.5", 5x5.25"
- 5 PCI Slots: 3x64-bit/33Mhz, 2x32-bit/33Mhz

Availability/Manageability

- Hot Swap Drive Models
- Remote Supervisor Adapter Support
- Diagnostic LEDs
- ASR, WOL, IBM Director, ServerGuide
- Tower to Rack Option

x220

Affordable 2-Way SMP server with performance and data protection for small and medium business

IBM eServer xSeries x220 Driver Support

Feature	Chip	PCD	optional
Video	ATI Rage XL	ATI Driver	SDD/se 7.10 Snap 2.0
Ethernet	Intel Pro 10/100	e100b	none
USB	EHCI	none	DDPak
Drives	Ultra160 1channel	Ultra160 driver	DDPak
ServeRaid 4	IBM ServeRaid	ServeRaid driver	none

x235 Feature Overview

e-business

Power

- Intel Xeon 2-way SMP support (up to 2.4Ghz)
- Supports up to 12GB PC2100 DDR ECC SDRAM
- Integrated RAID 1 with Dual Channel Ultra320 SCSI enabled
- Integrated 10/100/1000 Ethernet

Scalability

- Up to 12GB ECC
- Up to 657GB of disk in 9SL hot-swap bays
- 9 Drive Bays (6 standard + 3-pack option)
- 6 PCI Slots: 3x64-bit 100MHz, and 2x64-bit 33MHz (hot plug) and 1 32-bit PCI slot

Availability/Manageability

- Integrated RAID 1 mirroring capability
- Hot-swap redundant power / cooling models
- PFA on CPUs, VRMs, memory, power supplies, disks, and fans
- Light-Path Diagnostics?
- Active PCI-X
- Advanced Systems Management Processor

Leadership Performance

Price/Performance
#1 TPC 2-way
Raw Performance
#1 NotesBench 2-way

x235

Flexible Xeon 2-Way SM server offering mainstream capabilitie that can grow to maximu availability and performance

ULTRA320 SCSI

IBM eServer xSeries x235 Driver Support

Feature	Chip	PCD	optional
Video	ATI Rage XL	ATI Driver	SDD/se 7.10 Snap 2.0
Ethernet	Broadcom 570x Gigabit	Broadcom Driver	none
USB	EHCI	none	DDPak
Drives	Ultra320	Ultra320driver	none
ServeRaid 5i	Add on to Ultra320	ServeRaid driver	none

IBM ServeRaid Adapters - all with OS/2 support

e-business

PCI RAID Controllers

ServeRAID-4Lx
- 32MB ECC
- Single U160 SCSI Channel
- 66MHz Host bus speed
- Supports up to 14 drives
- 1 channel

US$ 659

ServeRAID-4Mx
- 64MB Battery Backed up ECC Cache
- Dual U160 SCSI Channel
- 66MHz Host bus speed
- Supports up to 28 drives

US$ 999

ServeRAID-4H
- 128MB Battery Backed up ECC Cache
- Four U160 SCSI Channel
- Supports up to 56 drives
- High Performance

US$ 2,439

Integrated RAID

System Feature
(Luigi)
- RAID 1 with Hot Spare
- ServeRAID configurator

Raid 1 on Motherboard

ServeRAID-5i
- 128MB ECC
- 66MHz Host bus speed
- Battery Backup
- ServeRAID Functions

Low Cost Raid

US$ 529

Server consolidation on x440

- Consolidate separate Servers to single box
- Manage ressource allocations dynamically for workload or maintenance
- Take advantage of new I32 Server technology, where some legacy server operating systems don't support them
- Concentrate Server in regional or central Data Centers

- Problem: x440 with VMWare does not support OS/2 !

- Solution: Certify Connectix VirtualServer on x440
  - Customer demand for OS/2 support
  - xSeries brand considers ServerProven
  - Raleigh is testing.....

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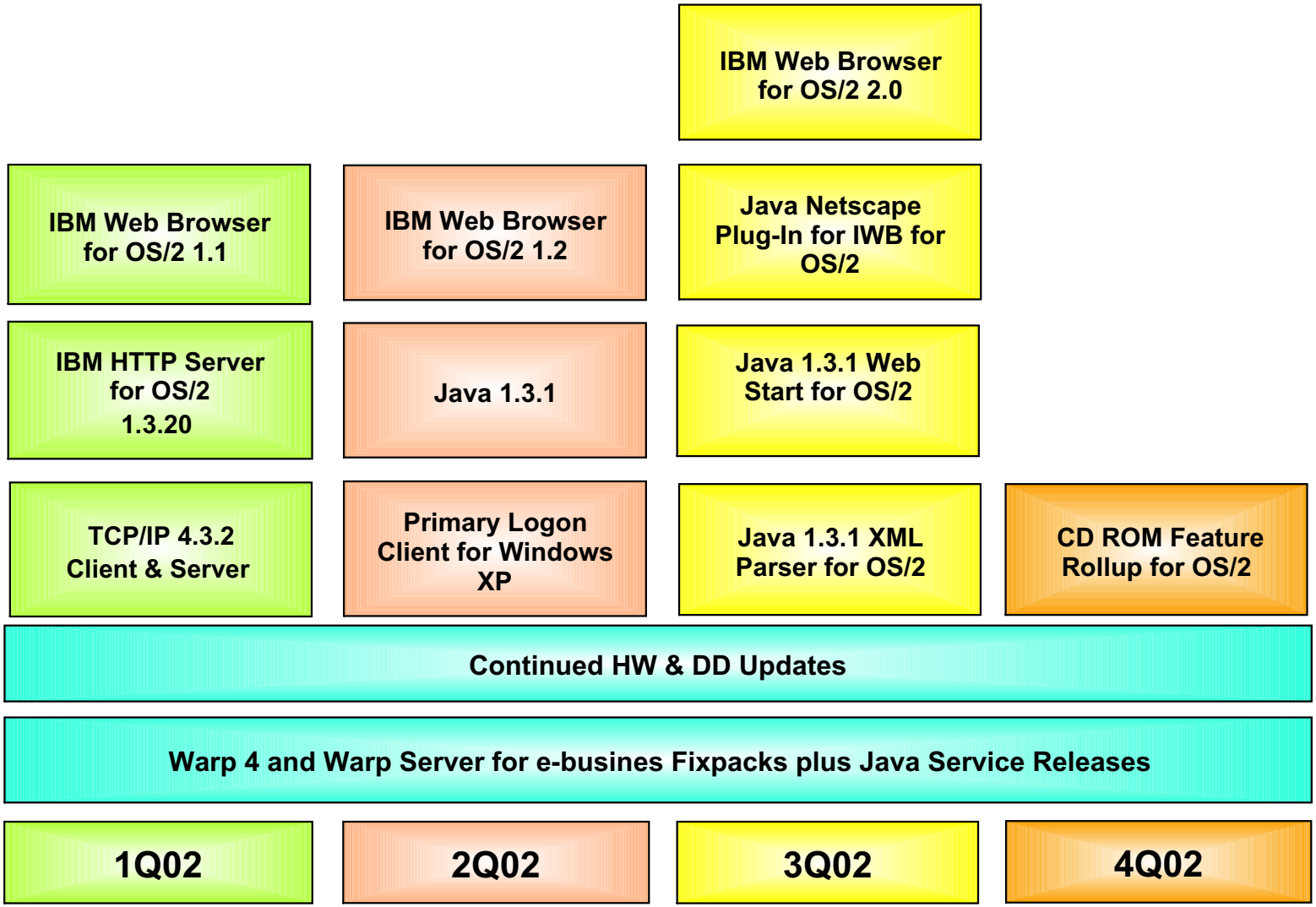
  - NetVista Desktops
  - eServer xSeries
- OS/2 SWChoice & Fixpacks
- OS/2 Device Driver updates
- Other interesting stuff

OS/2 2002 Deliverables

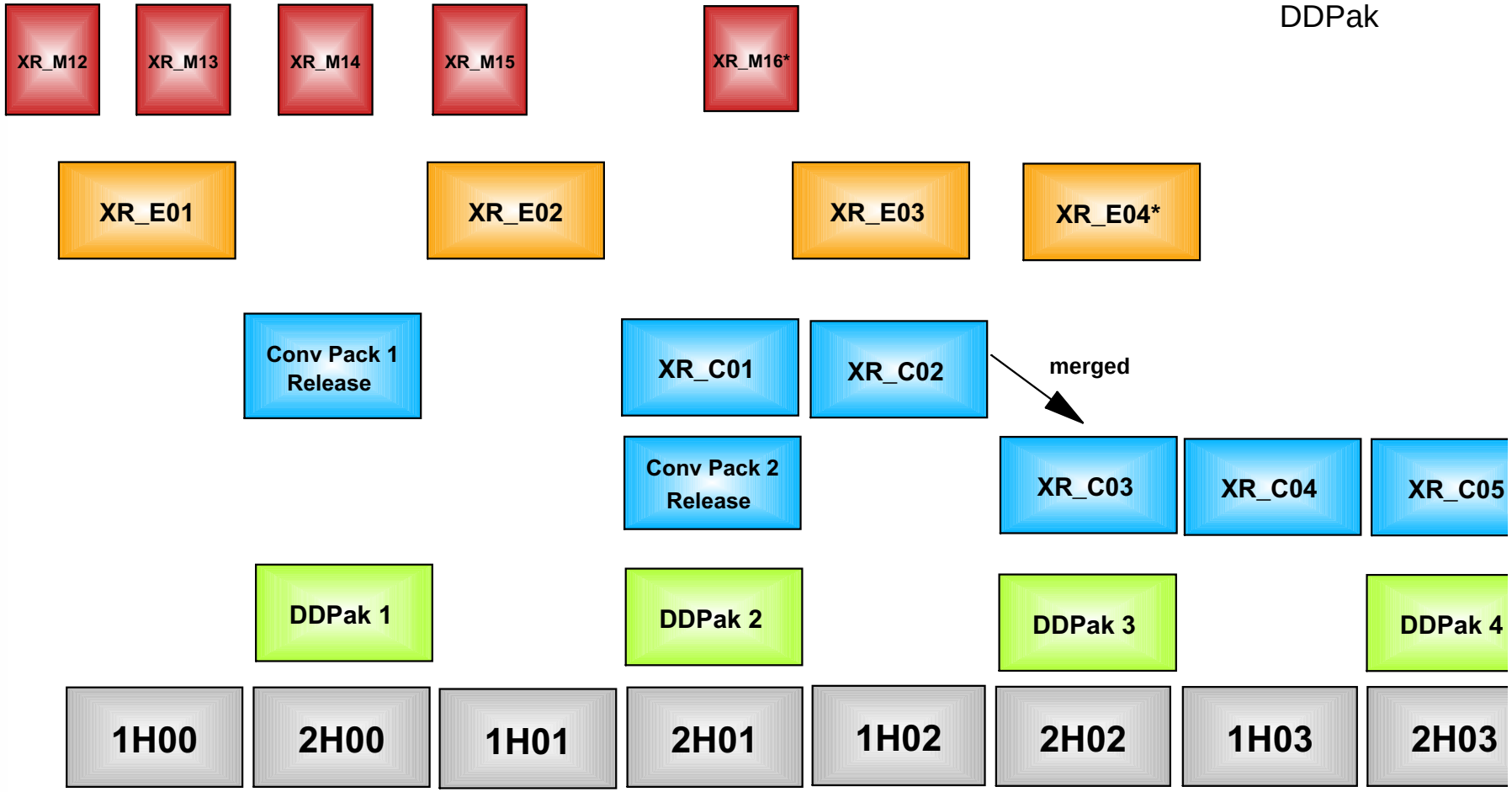


All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only.

OS/2 Base Fixpacks

From top to dow

- Warp 4.0
- WSeB GA
- CP1 / CP2
- DDPak



* Released as controlled for Service Extension Customers only !

MPTS Fixpack WR_8706

- **WR_8706 major fixes (see WR08706.INF for full list)**
  - IBMTOKCS works again (incl. LAA)
  - TRAP000E WHEN EXITING PPP OR INJOY DIALER
  - Killing a rpc-client while waiting for server-response, results in a sys3175 in rpc32dll.dll.
  - TRAP 0008 OCCURS WHEN ATTEMPTING TO RUN AN APPLICATION THAT RESIDES ON A REMOTE SERVER, AND CONNECTION PROTOCOL IS TCPBEUI
  - USING 1GIG ETHERNET ADAPTER AND IS TRYING TO ACHIEVE AN MTU SIZE OF 9000.
  - SOCKSIFIED DHCP CLIENT TAKES MORE TIME TO GET IP ADDRESS OR TRAPS
  - WEBSERVER STOPS ACCEPTING TCPIP CONNECTIONS AFTER ABOUT 1.5 MILLION TRANSACTIONS WHICH RESULTS IN TIMEOUTS AT CLIENTS
  - DHCP CLIENT NOT RELEASING THE ADDRESS FROM DHCPMON.
  - USING DHCP CLIENT, AND WHEN THE DHCP ADDRESS EXPIRES SYSTEM TRAPS WITH A TRAP000E IN AFINETK.SYS.

TCP/IP Fixpack UN_2206

- **UN_2206 major fixes (see UN02206.INF for full list)**
  - SYS3175 on IPFORMAT -x
  - FTPD denied requests
  - Problems with Windows Clients connecting to FTPD
  - Password in clear text in FTPD logfile
  - changed LPR printing timeouts to speed up
  - Telnet codepage problems
  - LPRPORTD hungs in misc. circumstances
  - Fixed connection problems with multihomed FTPD
  - Misc problems with NFS connections to non-OS/2 hosts
  - NFSD failed on creating > 64k entries in directory

- **FTP, FTPD & FTPPM refresh (post UN2206)**
  - supports files >2GB

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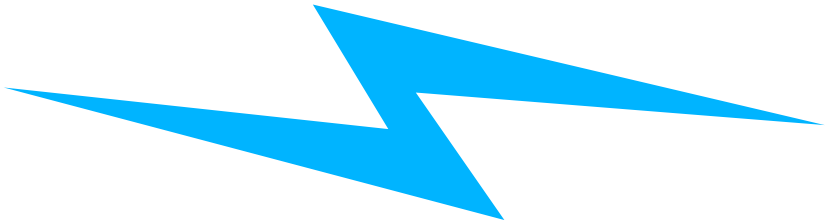
- Other interesting stuff

Device Driver Web Pages



http://service.software.ibm.com/os2ddpak

http://www-3.ibm.com/software/os/warp/swchoice

Shipped Base Device Support

- ✓ PCI Serial Combo Card Support
- ✓ PCI Parallel Combo Card Support
- ✓ USB 2.0 Enhanced Host Controller Interface (EHCI) Support
- ✓ USB Memory Key Support
- ✓ UDF File System Version 2.0/2.01 Support
- ✓ ICH4 and ICH4M IDE Support
- ✓ PCCard 5.0 Updates for Thinkpad T2x and T30
- ✓ Gigabit Fiber Ethernet Adapter Support
- ✓ Gigabit Copper Ethernet Adapter Support

Shipped Base Device Support

- ✓ Universal Audio Support (ALSA based)
- ✓ Infrared Support for Thinkpad T2x and T30
- ✓ Thinkpad T30 Trackpad Support
- ✓ Single Mouse Support (Standard/Scroll/TrackPad/TrackPoint)
- ✓ TCP/IP Printer Support
- ✓ Yamaha YMF754 Audio Support
- ✓ Creative Labs Ensoniq CT5880 PCI Audio Support
- ✓ SCSI Geometry Filter

Shipped Video Support

- ✓ SciTech GM9
  - ATI Radeon Mobility M6
  - ATI Radeon
  - ATI Radeon LE
  - ATI Radeon VE
  - ATI Radeon Mobility M7
  - ATI Radeon 7500
  - ATI Radeon 8500
- ✓ SciTech GM10
  - Matrox G-550
  - NVidia GeForce3
  - Trident Blade3D for VIA 8601
- ✓ Scitech GM11
  - ATI Radeon 8500DV
  - Intel 845
  - NVIDIA GeForce2 Integrated GPU
  - NVIDIA GeForce2 Ti
  - NVIDIA GeForce2 MX 100/200 (separated from MX 400)
  - NVIDIA GeForce4 MX 420
  - NVIDIA GeForce4 MX 440/460
  - NVIDIA GeForce4 Ti
  - S3 ProSavage (VIA PM133)
  - S3 ProSavage (VIA KM133)

Shipped Print Support

Printer Pak 20

- ✓ Omni
  - Canon S600
- ✓ Laserjet
  - Brother
    - HL-1440, HL-2460
  - Kyocera
    - FS-1010, FS-1050
  - Lexmark
    - C750, C910, E322
- ✓ Postscript
  - Kyocera
    - FS-10, FS-1050, FS-1800+, FS-1900, FS-6750, FS-9100DN, FS-9500DN
  - Lexmark
    - C750, C910, E322
  - Oki
    - C7200, C7400, C9200, C9400, Oki Okipage 14i, Okipage 8C/8C plus
  - Xerox Phaser 5400

Shipped Print Support

Printer Pak 21

- ✓ Omni
  - Canon Bubble Jet
    - S100, S300, S500, S630, S6300
  - HP DeskJet
    - 920, 930, 935, 940, 950, 960, 980, 995
- ✓ Laserjet
  - Brother
    - HL-1850, HL-1870N
  - HP Business Inkjet
    - 2230, 2280/2280tn, w2600
  - HP LaserJet 4600
  - Kyocera
    - FS-8000C, FS-9100DN, FS-9500DN, KM-3530
- ✓ Postscript
  - Brother
    - HL-1850, HL-1870N
  - HP Business Inkjet
    - 2280/2280tn, w2600
  - HP LaserJet 4600
  - Kyocera KM-3530
  - Minolta/QMS
    - Magicolor 2210, 3100, 6110
  - Xerox
    - Phaser 6200B, 6200DP, 6200DX 6200N
    - Phaser 8200B, 8200DP, 8200DX 8200N

Shipped Print Support

Printer Pak 22

- ✓ Omni
  - Canon
    - S520, S750, S820D, S900, S9000
  - HP Business InkJet
    - 2230, 2280
  - OKI
    - OkiPos 425D, 425S
  - Epson Stylus
    - C60, C70, C80
- ✓ Laserjet
  - HP
    - LaserJet 2500c, 5500c
  - OKI
    - C7200, C7400, C9200, C9400
    - Okipage 14i, 14ex, 24, 24dx, 8p+
  - Xerox
    - Phaser 5400
- ✓ Postscript
  - HP LaserJet
    - 2500c, 5500c
  - Xerox
    - Phaser 4400B, 4400DT, 4400DX, 4400N

Future Drivers and Support

- Compatibility with Evolving Industry Standard Specifications: USB, UDF, IDE, et al
- Compatibility Test Select Mobile, Desktop, and Server Systems
- Selected Support for:
  - Storage Devices
  - USB Devices
  - Printer Devices for Leading Manufacturers
  - Video Chipsets for Leading Graphics Manufacturers
  - Network Interface Adapters
  - AC '97 Audio CODECs

All statements regarding IBM's future direction and intent are subject to change or withdrawal without notice, and represent goals and objectives only. Compatibility focuses on basic system operability and not full hardware exploitation.

Support through Generic Drivers

- **IBM SDD/se or SciTech Display Doctor / SNAP 2.0**
- currently > 200 Chips
  - latest is I845G (SDD/se 7.10)
- open to discuss additional drivers

- **"Universal Audio Driver" (released this week)**
- initial drop supports:
  - Sound Blaster Live!
  - Cirrus Logic CS4281 (X2x)
  - Avance Logic ALS4000
  - C-Media CMI8738
  - Intel ICH (T2x & T3x)

Printer Support

- We are planning to continue OS/2 print device driver support for commercial printers during the year.
- This will include a range of PostScript, PCL (Laserjet), and Omni drivers for the new and popular printers supported by the major printer manufacturers.
- We will continue our current plan to release updates for our OS/2 print drivers to the on-line OS/2 DDPak.
- Additionally we will entertain requests for specific printer support, beyond the normal printer support of low and middle-end printers, on a fee basis.

Agenda

- IBM Hardware with OS/2 Support
  - Thinkpads
  - NetVista Desktops
  - eServer xSeries
- OS/2 SWChoice & Fixpacks
- OS/2 Device Driver updates
- Other interesting stuff

OS/2 LanAPIs

- .... were incorporated into the OS/2 Toolkit before they were removed from the LAN part of the product.

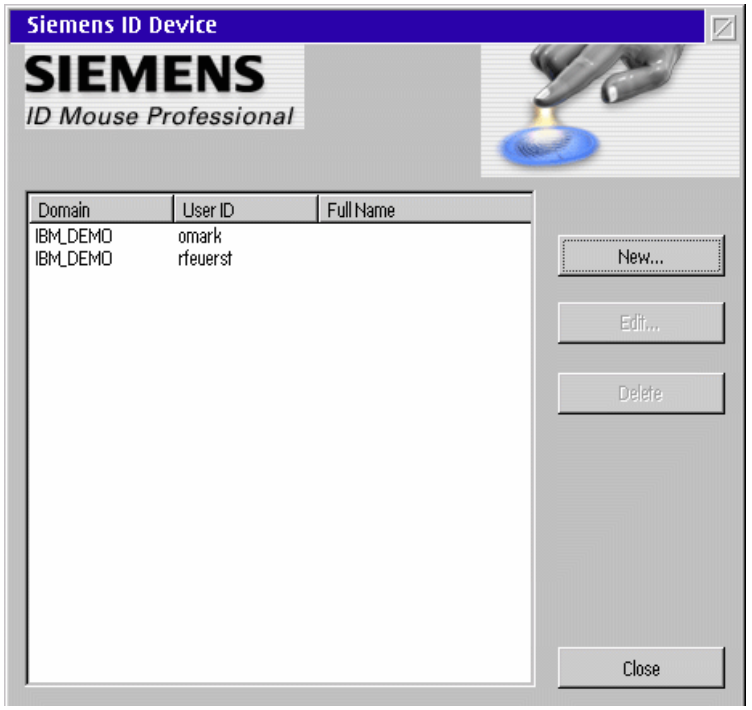
- The LAN headers and library files are included in the OS/2 Toolkit that's on the Convenience Pak Installation CD (for both version 1 and 2). They are available under the category Headers and Libraries. The header files are in the subcategory IBM Peer Services Headers, and the library files are included in the Libraries subcategory. The library files are the net*.lib and the upm*.lib files.

- They are not separated out from the base libraries now.

SmartSuite for OS/2

- "Our Development Team will continue to provide quality improvements to SmartSuite 9.7 for Windows and 1.7 for OS/2, while preserving the functionality and user interface as they exist in the current releases. We are currently planning 2002 updates to SmartSuite and we look forward to delivering high quality products in 2002 and beyond. "
  (Powell Smith, SmartSuite Product Manager)

- SmartSuite 1.7.1 release in 11/2002
- 1-2-3 opens and saves Microsoft Excel 2000 and Excel XP files.
- Word Pro opens and saves Microsoft Word 2000 and Word XP files.
- Over 30 customer-related issues fixed.
- SmartSuite base level will remain 1.7x with update fixpacks released based on demand.

Fingerprint Support as Service Engagement

- IBM Global Services Germany and Siemens AG are now working jointly together on biometric access integration into OS/2 operating systems.
- In a first step Siemens biometric division realized a connectivity for their ID-Mouse with OS/2. Using this solution, Login to OS/2 systems and related applications will change from Name/Password or personal access Code (PINs)
  to easy finger tip.
- Flexible integration to existing environment is possible.