

DRI Highly Confidential

To: P. Balma, J. Bromhead, J. Constant, D. Dixon, R. Gibbe,
 D. Giesbrecht, G. Stephens, S. Tucker, A. Wightman
 From: Frank Beilinson
 Subject: DR DOS Product Planning Meeting Summary
 Date: October 2, 1990

What follows is a summary of key elements of last week's planning meeting. This document is highly confidential and should not be copied or circulated beyond the planning team.

Tuesday, September 25

Meeting objectives

- * Determine foundation of long term DR DOS product strategy
- * Determine feature set of DR DOS 6.0
- * Determine development schedule for DR DOS 6.0

Core market segments (as guide to development)

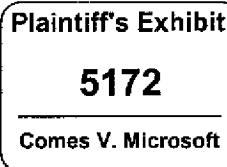
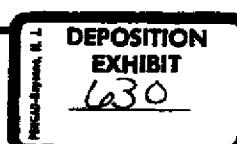
- * Departmental systems: multiuser or networked high end systems
- * High end systems: 386 and above, may include Windows
- * Low end systems: 286 and lower
- * Lite: all portables, laptops, notebooks
- * Special: all embedded and dedicated PC systems (i.e. PWPs)
- * Windows: offer improved performance running Windows

Priority of market segments (Based on rankings of regional representatives)

	Japan	Asia	Europe	America	P. Mktg	Summary
* Dept	5	1	3	3	2	3
* High-end	3	2	4	1	3	1
* Low-end	4	4	1	2	4	4
* Lite	1	1	4	4	1	2
* Special	2	5	5	5	5	5

1

C0011717



MS-CCP-MDL 5015266

DRI Highly Confidential

Wednesday, September 26

DR DOS 6.0 Development Strategy (proposed)

- * Prioritize feature selection based on end-user appeal/benefit
- * Identify strong individual focal features to serve as foundation of positioning
- * Represents dramatic improvement over both DR DOS and MS-DOS 5.0
- * Supports DRI goal of perception as DOS technical leader
- * Prioritize development which will attract strong strategic partners
- * Introduce MS 5.0 parity simultaneous to MS launch (i.e. Feb 91)
- * DR DOS 6.0 Beta available for demo at same time as MS launch

MS-DOS 5.0 Reaction Discussion

- * Feature candidates for matching (listed in rough priority)
 - Task switcher (++)
 - Load high compatible with Windows (++)
 - Undelete (+)
 - Keyboard macros
 - Better editor
 - 2.88MB FDD support
 - Quick Format
 - Safe Format
 - Extended DIR
 - > 2 HDD
 - Help for built in utilities
- * Feature not candidates for matching (with rationale)
 - Quick Basic Interpreter (Sales add on)
 - Upgrade installation (in DR DOS 5.0)
 - De-install (?)
 - Media sensing (?)
 - SETVER (Sales to highlight incompatibility)
 - New API (? track for later versions)
- * MS-DOS 5.0 counter-strategy ideas
 - Veritest MS-DOS 5.0 for compatibility problems, use in Sales
 - Match select features in 5.01 but add new feature(s) not in MS-DOS to hinder direct comparison between the two products
- * Development plan
 - Code name Buxton
 - Add task switcher to ViewMax, do not change main doc
 - Look to GEN/XM for shortcuts
 - Add Windows XVD support on priority
 - Look to add other easy to implement features: security, on-line doc

DRI Highly Confidential

Wednesday, September 26

DR DOS Feature Priorities (see attachments with full details)
Initial priority based on preference tally (# votes in parentheses)

- * **High-end systems**
 - Multi-tasking (8)
 - 386 optimized kernel (8)
 - Security: keyboard, data encryption (6)
 - Laser printer support, spooler (5)
 - Installable file system (5)
 - Improved memory (5)
 - Improved backup (4)
- * **Department systems**
 - Security (system, local file) (7)
 - Network ready (6)
 - Laser printer support, spooler (6)
 - Application memory space (5)
 - Network redirector (5)
- * **Lite Systems**
 - On-line documentation (9)
 - Modem/fax connectivity (8)
 - IC card support (7)
 - BatteryMax improvements (6)
 - Floppy/HD cache (6)
 - FileLink improvements (5)
- * **Low-end systems**
 - Task switching (in DR DOS 5.0X)
 - Improved ViewMax (8)
 - AI front end (6)
 - LIM emulation (6)
 - On-line documentation (5)
 - Sexier utilities (5)
 - Minimize kernel (4)
 - Intelligent install (4)
- * **Special**
 - Kernel size: dynamically loadable (8)
 - Modular kernel (7)
 - IC card support (7)
 - Flash ROM support (5)
 - ROM app support (3)
 - alternate file system (3)
- * **Windows Systems**
 - Load high compatible with Windows (in DR DOS 5.0X)
 - Security/password (6)
 - Profile system use of DOS kernel (5)

DRI Highly Confidential

Thursday, September 26Strategic Alliance Strategies

- * IBM
 - Work with IBM to speed the development of OS/3
 - Offer custom solution to IBM lack of viable portable
- * Chips & Technologies
 - Offer alternative to pressure from Intel on Genesis
 - Complete package/hardware coupled
- * Strategic Alliance Actions (Tucker/Bailinson)
 - Identify who is responsible for activity
 - ~~.../...~~ Technical, senior, primarily focused on activity

Milestones (DR DOS 6.0)

	<u>Due Date</u>
1) Meeting summary (Bailinson)	Wed 10/3
2) Extended feature list (Wightman/Bromhead)	Fri 10/5
3) Revote by team (return to Bromhead)	Tue 10/9
4) Tally of votes (Bromhead)	Fri 10/12
5) Determine draft feature set (Tucker/Bailinson)	Mon 10/15
6) Preliminary PRD (Bromhead)	Thur 11/1
7) Present to Williams (Bailinson)	TBD
8) Review/comment by team	Wed 11/14
9) Final PRD (Bromhead)	Fri 11/30
10) Engineering Development Plan (prelim) (Wightman)	Fri 12/14

Milestones (DR DOS 5.0X)

	<u>Due Date</u>
1) Engineering report/prelim spec (Wightman)	Mon 10/3
2) VXX report, MS dependent (Constant)	Mon 10/3



C0011720

MS-CCP-MDL 5015269

MS-CCPMDL 000005015269

DRI Highly Confidential

Attachment
Current 3.0 Strengths/Weaknesses by Segment

(code: + is also strength/weakness for MD-DOS, * is feature shared with MS-DOS 5.0)

Department Systems

- | | |
|---------------------|--------------------------|
| - Strengths: | Weaknesses: |
| - MemoryMax (*) | - Security (+) |
| - ROMable (*) | - NW support |
| - On line help (*) | - NW aware/ready (+) |
| | - NW redirector |
| | - NW GUI |
| | - Different commands (+) |

High-end systems

- | | |
|-------------------------|--------------------------|
| - Strengths: | Weaknesses: |
| - MemoryMax (*) | - File performance |
| - Disk cache (*) | - Multi-tasking |
| - Password | - Windows 3.0 |
| - Command line edit (*) | - General performance |
| - Editor (*) | - Undelete/unformat |
| - Large disks (*) | - Processor optimization |
| - Setup (menu) | - 2.88MB FDD |
| - Extended config | - > 2 HDD |
| | - 2GB HDD |

Low-end systems

- | | |
|---------------------|---------------------|
| - Strengths: | Weaknesses: |
| - Install/setup (*) | - Size |
| - On line help (*) | - Task switcher |
| - ViewMax (*) | - Undelete/unformat |
| - Command recall | - Basic |
| - MemoryMax (*) | - File search |
| - NEAT chip set | |
| - ROMable | |
| - Large disks | |


C0011721

MS-CCP-MDL 5015270

MS-CCPMDL 000005015270

DRI Highly Confidential

Attachment
Current 5.0 strengths/Weaknesses by Segment

(code: + is also strength/weakness for MD-DOS, * is feature shared with MS-DOS 5.0)

Lite Systems

- | | |
|----------------------|-------------------------|
| - Strengths: | Weaknesses: |
| - BatteryMax (*) | - Size |
| - Cursor | - Flash file system (+) |
| - FileLink (*) | - 2" disk support |
| - ROMable (*) | - XIP |
| - Command recall (*) | |
| - ROMdisk compress | |

Special

- | | |
|----------------------|---------------------|
| - Strengths: | Weaknesses: |
| - ROMable (*) | - Size |
| - ROM executable (*) | - Developer tools |
| - ROMdisk | - Flash ROM support |
| - BatteryMax (*) | |
| - FileLink (*) | |


C0011722

MS-CCP-MDL 5015271

MS-CCPMDL 000005015271

DRI Highly Confidential

Attachment
DR DOS 6.0 Feature Ideas
Department Systems

- Application memory space (625KB)
- Network ready
- Run OS/2 apps on DOS station (XWin?)
- Network redirector
- Security for local files
 - System level at startup
 - Group/user/file
- DR NET-style peer-to-peer networking
 - E-mail
 - Processor resource sharing on network
 - More complete network support
- Multi-user
- Laser printer support
- Virus protection

Windows systems

- ViewMAX as a Windows app
- Windows look and feel
- Disk caching
- Windows improvement to security, password
- Profile Windows use of DOS kernel
- MPPS
- Calendar, scheduler...

C0011723

MS-CCP-MDL 5015272

MS-CCPMDL 000005015272

DRI Highly Confidential

Attachment
DR Dos 6.0 Feature Ideas
High-end systems

- Multitasking (with added GEM/XM features: DDE, cut/paste)
- Windows clone
- Protected mode
- Installable file system (resource manager, file system format filter)
- Rewrite DOS file system
- Disk cache improvement (multitrack)
- 386 optimized kernel (multikernel)
- Improved MemoryMax (page over ROMBIOS)
- Improved Backup (multitask, high capacity)
- 2GB disk support
- Integrate removable disks
- Device driver I/F
- Disk optimization
- Virus protection
- File/disk compression (on the fly)
- Super batch (REXX)
- Laser print.ccm support/spooler
- Integrate coms package
- Expert system shell (spelling, learns)
- Multimedia extensions
- DR CDX
- NABE - FlexOS 186 realtime extensions
- Text search (i.e. GOFER, Magellan)
- Security (keyboard lock data encryption)
- Alias



MS-CCP-MDL 5015273

MS-CCPMDL 000005015273

DRI Highly Confidential

Attachment
DR DOS 6.0 Feature Ideas
low-end systems

- Tutor program
- Doc on disk (include hypertext)
- AI front end shell
- Context sensitive help
- Resume upon power off
- Customizable ViewMax
- Improved ViewMax for benefit as Windows file shell (menus, command macros, resizable overlapping Windows, desk accessories)
- Integrated app (i.e. LotusWorks)
- Auto file save
- LIM emulation for disk (8086), LIM for extended (286)
- Paging
- Bitmap image viewer - Fax CCITT
- Sexier utilities
- Backup/restore
- Intelligent install (processor specific copy)
- Dynamically linked languages
- Minimize kernel size
- Wireless networks
- Home computer control system (i.e. Echelon)

Novell

- Client side synergy (file system, commands same)
- NetWare ready (drivers)
- Interrupt 2F (network/DOS integration)
- Server license of DOS (special, locked to network)
- MemoryMax customize, integration

000005015274
C6011725

MS-CCP-MDL 5015274

MS-CCPMDL 000005015274

DRI Highly Confidential

Attachment
DR DOS 6.0 Feature Ideas
Lite

- Size reduction
- Support 2" drive
- IC card support
- Flash file system
- XIP
- Modem/fax connectivity
- Update FileLink (other OS, LAN, 3 wire, LAN redirector, TSR)
- Stylus input support
- Improve BatteryMax (charge during idle, power mgt center, visible battery guage)
- Screen enhance (zoom, anti-aliasing)
- On-line doc (editable, with notes)
- Resume
- Rapid battery charge
- Integrated app
- FDD cache
- Business card reader
- Security: password fingerprinting from keyboard
- Modem virus detection on fly
- Disk optimizer/file compression
- Auto save
- Super Batch
- Single disk copy

Special

- Size (dynamically loadable CONFIG processor)
- Voice recognition
- Bar code driver
- Wireless transmission support
- Multi-tasking
- ROMable base apps support
- Modular Kernel
- IC card support
- Developer tools
- Flash ROM support
- Print spooler
- Alternate file system (large file names, more data on disk)
- Encryption/compression (linked to unique key on machine)
- Resume

████████████████████
C0011725

MS-CCP-MDL 5015275

MS-CCPMDL 000005015275