

DRI Highly Confidential

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 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	3	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

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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 (?)
  - SERVER (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

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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 (6)
  - 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)



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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~~ 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) VXD report, MS dependent (Constant)	Mon 10/3


  
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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

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

High-end systems

- | <u>Strengths:</u>       | <u>Weaknesses:</u>       |
|-------------------------|--------------------------|
| - 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

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



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Attachment  
DR DOS 6.0 Feature Ideas  
High-end systems

- Multitasking (with added GEN/XX features: DEE, 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
- NASE - FlexOS 186 realtime extensions
- Text search (i.e. GOFER, Magellan)
- Security (keyboard lock data encryption)
- Alias

  
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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

  
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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 gauge)
- 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

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