Novell DOS Business Planning

1. Novell DOS business forecast

Estimates for the Novell DOS business were based on estimates from IDC and Gartner showing DOS shipments shrinking rapidly after Chicago (Windows 4) ships in mid 1995. Distributors are already beginning to report a slow-down in retail DOS business.

Gartner¹, among others, are saying shipments of Chicago will take from a year to 18 months to ramp up. However, in the retail channel many users who would have upgraded to DOS 6 will go straight to Chicago if they have capable hardware. The exact percentage is not known because Chicago's hardware requirements are still uncertain, however estimates from Gartner² and IDC³ indicate that around 10 million units of Chicago will have been shipped through the retail and upgrade channel by the end of 1995.

The steepest falls in DOS shipments will be seen around 1996-1997, when the market is expected to level out for a short time before nose-diving again in 1998 as Chicago capable PCs penetrate the installed base further.

Due to the lock-out Microsoft has achieved in the OEM market and the imminent combining of DOS and Windows in Chicago no significant revenue can be expected from the OEM channel.

	1994	1995	1996	1997	1998
Revenue (\$M)	57.589	\$3.233	\$1,283	\$834	\$275
Revenue growth		-57%	-60%	-35%	-67%
Operating profit (SM)	(\$2,688)	(\$1.863)	(\$906)	(\$702)	(\$449)

Competition

1994	Navell	Comp#1	Comp#2	Market totals
Product	Novell DOS 7	MS-DOS 6.x	PC-DOS 6.x	
Businesa revenue	\$7,589,000	\$400,412,773	\$62,978,227	\$470,980,000
% Market share (S)	1.51%	85.02%	13,37%	
Market position	3	1	2	
Installed base	3,400,000	140,000.000	30,600,000	174,000,000
% Installed base	1.95%	80.46%	17.59%	
Market position	3	1	2	<u> </u>

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²Gartner - Worldwide PC Operating System installed base tables

The figures used for this report are based on our sales records and discussions with IDC.

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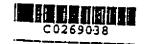
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Plaintiff's Exhibit

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Microsoft enjoy an completely dominant position in the market, followed closely by IBM which has the advantage of a 'genuine' MS-DOS descended kernel, and substantial marketing and promotion efforts. Novell DOS 7 is in third place with no prospect of becoming number 2 without a ten-fold increase in sales.

Market size projection

	1994	1995	1996	1997	1998
Annual Control	(\$117.174 000)	(\$183,420,000)	(\$121,560,000)	(\$50,200,000)	(\$69,800.
New market growth (S)	-20%	-39%	-42%	-30%	-60%
Market growth (5)	\$7,589,000	\$3.232,500	\$1,282,500	\$833.625	\$275.05
Novell DOS Revenue (S)	1.61%	1,12%	0.77%	0.72%	0.60%
% Novell market (\$)	31,498,000	18.356,000	7.500.000	5,080,000	2,000.00
Total market size (units)	-5%	42%	-59%	-32%	-61%
% Total growth (units)	210,806	89,792	35,625	23.156	7.842
Novell market size (units) % Novell market (units)	0.67	0.49%	0.48%	0.46%	0.36

Summary

	1994	1995	1996	1997	1998
Manus and de description (C)	(\$117 174 000)	(\$183,420.000)	(\$121.560.0001	(\$50.200.000)	(\$69.800.0
New market growth (\$) % Market growth (\$)	-20%	-39%	-42%	-30%	-60%
Novell COS Revenue (5)	\$7,589,000	\$3,232,500	\$1.282,500	\$833.525	\$275,09
% Novell market (\$)	1.81%	1.12%	0.77%	0.72%	0.50%
	31,498,000	18,358,000	7,500,000	5,080,000	2,000.00
Total market size (units)	-6%	-42%	-59%	-32%	-81%
% Total growth (units)	210,806	89.792	35.625	23.158	7.642
Novell market size (units) % Novell market (units)	0.67%	0.49%	0.48%	0.46%	0.38%

According to all the available data the DOS market has peaked and will decline rapidly during 1995 after the introduction of Chicago. Much increased competitiveness from IBM with PC-DOS 6, and Microsoft's agreement with STAC electronics which allows them to use STAC compression patents adds to the competitive pressures today. We expect unit shipments of Novell DOS 7 to decline in 1995 in line with shrinkage of the market. Due to the small size of the current business, and the shrinking revenue opportunity it will be difficult to justify the marketing and development investment needed to prevent an ever steeper decline in revenues thereafter. The following table shows the market share we would need to achieve for a 20% year on year increase in revenues:

Required revenue growth:	1984	1995	1996	1987	1998
Novel DOS Revenue (\$)		\$9,106,800	\$10,928,180	\$13,113,792	\$15,735,550
% Novel market (\$)	1,61%	3.17%	6.58%	11.32%	34.21%

Strategy

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When considering the correct strategy to adopt, the objectives for being in the DOS business:

- Seed the entry level networking market by integrating peer-to-peer networking.
- 2. Make it easier to access NetWare by producing a NetWare-ready desktop O.S.
- Make revenue and profits.

By offering the only credible alternative to MS-DOS we have also impacted Microsoft's ability to price DOS at a higher level. This effect will diminish once Chicago is available and Microsoft become less reliant on DOS revenues.

Because of the revenue outlook, if we choose to remain in the DOS market it will be because of the strategic payback resulting from increased sales of other product lines. We do not know how many customers buy NetWare or other Novell products as a result of their experience with Novell DOS. This could be determined through customer research, but to give a hypothetical case, if in 1995, 1 in every 200 customers did so, it would result in an additional 1,450 units of NetWare being sold.

The alternative is that Novell transition out of the DOS business, switching to other means to achieve it's objectives, while realising the maximum possible revenue in doing so.

Discussions have already taken place with IBM with a view to partnering on a common DOS offering. While these discussions did not provide either side with adequate justification to move forward, we should still keep open the possibility of licensing the Personal NetWare component of Novell DOS 7 to provide for objectives 1 and 2.

To maximize revenue we are exploring the possibility of selling the DOS business to either a single master OEM or a number of geographically dispersed OEMs. The deal would include the rights to the core O.S. source code and derivative works. We have not yet placed a value on the business, but it would require an initial investment in engineering, and an ongoing commitment to maintenance which would have to be factored in.

Novell would retain the right to ship Novell DOS 7 as part of any other Novell product. This currently includes the DOS emulation facility of UNIXWare.

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