EXHIBIT D

(JTX 186)

To Motion of Entity Defendants J.P. Morgan Partners (BHCA) LLP, Chase Equity Associates, LLC, and Hambrecht & Quist California, et al for Judgment as a Matter Of Law Pursuant to FRCP 50(A)

From:

Walker, Charlie

Sent: To:

Thursday, October 26, 2000 6:54 PM Oppenheimer, Stephan; Soghikian, Shahan

Subject:

FW: Information from Cadant











Financial

Cost Breakdown

Investor

Corporate

Executive Summary iformation Next Rou Next Round Fina... esentation 10-00.ppadership.doc (38 K. Septmeber 20...

----Original Message----

From: Johnson, Kevin [mailto:kjohnson@cadant.com] Sent: Wednesday, October 25, 2000 2:28 PM

To: Charlie Walker (E-mail) Subject: Information from Cadant

<<Financial Information Next Round.xls>> <<Cost Breakdown Next Round Financing.xls>> <<Investor Presentation 10-00.ppt>> <<Corporate Leadership.doc>> <<Executive Summary Septmeber 2000.doc>>

JTX 0186

				,					
		Cadant. Inc.							
		Designated Statement of Emperical Designation							
7 0		COMPANY CONFIDENTIAL	=	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	:				
4 (e000)			0000	0000	COCC	0000	1000	1000	1000
-			Sept	S 50	Nov	Dec	nel.	Feb	Mar
7 Current Assets				5		3		3:	
8	Checking/MMA accounts		8,683	9,050	46,620	43,683	50,610	47,855	45,571
6	Investments								:
0 7	Accounts necelvable-Net		, ,	, (2)	, ,	' 0	- 077	' 077	' 3
CT	Accounts Receivable-Allillates		113	113	113	25	113	200	113
13	:		1.000	1.500	1,800	2,000	2.000	1 717	362
14	Note Receivable	The state of the s	,				-	-	-
15	Prepaid Expenses		9	10	10	10	20	8	20
16				,	-		20	20	20
17 Total Current Assets			908'6	10,673	48,543	45,806	52,763	50,008	47,724
18 10 10 10 10 10 10 10 10 10 10 10 10 10				-		;	;		
_	7.00+	AND ADDRESS OF THE PARTY OF THE	NCT N	100	7,500	2.054	100 C	1 36.1	1 014
07	COSI		4,724	+00°,	412,2	6,534	1000	4,304	4,044
	Acculii Deplecialion		(ec/)	(700)	(000)	(934)	0,031)	(1,142)	1,200)
22 lotal Fixed Assets (Net)			3,965	1,177	1,354	2,020	2,773	3,222	3,578
						8	0		
24 Security Deposits 25 Other Inha term assets			2	3	₹:	2	0.	3	N
27 Total Assets			\$13,791	\$11,870	\$49,917	\$47,846	\$55,558	\$53,250	\$51,321
28									
29 Liabilities and Equity									
30 Current Liabilities	:			:	:	;	;		;
31	Accounts Payable		1,352	1,024	1,024	716	638	383	388
32	Income Taxes Payable		, 633	, 000	- +70	, 0,7	. 040	1 00	. 053
200	Rank deht - ST norton		3.005	3005	3 005		 	100 10	700
35	Capital lease - ST portion			1	20010	,	1	,	,
	Line of credit		-	-	-		-		-
	Deferred revenue		-	: ',					
38 Total Current Liabilities			4,910	4,719	4,869	4,440	6,877	6,471	6,489
39	- - - - - - - - - -			. E	: 6	L C			. 0
41	Capital lease liab - [Toorton		CGG	- C66	288	066	101.0	250,7	coc')
42 Total Liabilities			5,905	5,714	5,864	5,435	15,037	14,304	13,992
43	Accrued LT liability		1	1		,			
45 Shareholder's Equity									
	Common Stock		99	99	99	99	99	99	99
47	Series A Preferred Stock		22,192	22,192	22,192	22,192	25,192	22,192	22,192
48	Series B Preferred Stock				40,000	40,000	40,000	40,000	40,000
49	Treasury stock @ cost		(009)	(009)	(009)	(009)	(009)	(009)	(009)

	А	9	O	Ш	u.	9	Н	_	٦	¥
50		Add'l Pald-in Capital				,			•	
51				(2,428)	(2,428)	(2,428)	(2,428)		(2,428)	(2,428)
52		CY Net Income <loss></loss>		(11,344)	(13,074)	(15,177)	(16,819)		(20,285)	(21,901)
. 23	53 Total Shareholder's Equity	3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		\$7,886	\$6,156	\$44,053	\$42,411	\$40,518	\$38,945	\$37,329
54										
55	55 Total Liabilities and Equity			\$13,791	\$11,870	\$49,917	\$47,846	\$55,556	\$53,250	\$51,321

	2001 Apr 43,424 43,424 113 354 964 964 20 20 20 45,224	2001 May 42,054 600				-	a de la constanta de la consta					
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	Apr Apr 43,424 43,424 113 330 113 354 964 964 964 964	2001 May 42,054 600	:					-	-			A CONTRACTOR OF THE PARTY OF TH
	Apr 43,424 330 113 354 964 20 20 20 45,224	2001 May 42,054 600		÷ · · ·	:	:			:			
	Apr 43,424 43,424 113 354 964 964 20 20 20 45,224	May 42,054 600	2001	2001	2001	2001	2001	2001	2001	2002	2003	2004
7 8 8 0 0 1 1 1 1 2 1 E 1 4 1	43,424 330 113 354 964 964 20 20 45,224	42,054	n J	3	Aug	Sep	Ş	Nov	Dec	Dec	Dec	Jan
8 6 0 1 2 5 7 4	330 330 113 354 964 964 20 20 45,224	42,054									- 1	
9 01 11 12 11 14	330 113 354 964 96 20 20 45,224	600	39,950	38,265	36,727	35,180	33,624	33,648	33,000	42,463	54,877	36,871
12 12 14	330 113 354 964 - 20 20 45,224	600		:			;	:	:		:	
1 2 5 4	113 354 964 20 20 20 45,224		099	720	870	1,200	1,800	2,100	2,640	4,608	10,208	11,127
5 E 4	354 964 - 20 20 45,224	2	113	113	113	113	113	113	113	113	113	138
£ ‡	964 - 20 20 45,224	142		•			,	,	,	8.071	33.067	35,463
4	20 20 45,224	1 134	1 360	1 644	2 267	3.401	3.968	4 988	5 038	7 703	19 150	20,873
-	20 20 45,224	5	33.		6,60	2		35,1	200,0	2	2	0.00
L	20 45,224		' 8			8			- 6	. 6		' 8
<u> </u>	45,224	R 6	8 8	Q: 6	8 8	8 8	Q: 8	₹ 1	R . 8	8 8	Q: 8	R 6
2 12	17,0	44 083	42 124	40 781	40.017	39 934	39 545	40 889 :	40 831	62 999	117 454	104 512
1 9		200,41	72,127		200	100,00	2500	200,01	2	02,30	tot	410,401
<u> </u>				:			:			:		
2 8	F 2004	F 804	700 3	6 77.4	7 054	7 794	. 640 0	600	0.474	04 474	40.074	10.04
3 2	1,024	100,0	10,230	+//,0	+02'/	150.00	4010	0,034	4,1,4	# 14 1 2	4/6/04	40,374
12.5	(1,404)	(400,1)	(1,/16)	(CRB(1)	(2,084)	(2,201)	(2,504):	(2,733)	(2,975)	(a,093)	(18,552)	
27 2	3,920	4,250	4,5/6	4,8/9	5,7/0	5,447	5,710	5,961	6,199	13,381	22,422	40,974
57												
74 24	8	07	8	R 1	2	R	20	8	8	20	07	50
3 %				***************************************								• [
L	\$49,165	\$48,353	\$46,720	\$45,681	\$45,207	\$45,401	\$45,275	\$46,870	\$47,050	\$76,400	\$139,896	\$145,506
8			•				,					- Production of the Production
62	-				1	Land Annual Manager Street		The second secon				
8				;	;			•	;		:	:
3	(1)	833	685	758	1,102	1,732	1,023	1,993	534	3,488	5,530	4,716
32	-		1	•				-	-		-	
8	825	1,016	843	768	782	874	784	1,140	816	1,345	1,934	1,172
34	5,424	5,424	5,424	5,424	5,424	5,424	5,424	5,424	5,424	4,972		,
32	-	-	-		-	-				1		•
3 8			1	•	11	1	1		1)	11		1
) e	S SAB	7 973	E 052	6 950	7 308	080 8	7 924	, 557	6 773	308.0	7.465	000 3
3 8	2,5),	2,000	200,0	200,	8	- 63.7	0,0	2	200	201.	0,00
8 8	7.169	6.833	6.493	6.150	5.804	5.455	5.103	4.747	4.389	,	:	1
17			•		•				1		1	
24	13,417	14,105	13,445	13,100	13,113	13,486	12,334	13,305	11,162	908'6	7,465	5,888
43	-											And the Control of th
44											-	
45												
46	8	99	98	99	99	98	99	99	99	99	99	99
47	22,192	22,192	22,192	22,192	22,192	22,192	22,192	22,192	22,192	22,192	22,192	22,192
₽	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	40,000	30,000
49	(009)	(009)	(009)	(009)	(009)	(009)	(009)	(009)	(600)	(009)	(009)	(600)

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51	(2,428)	(2,428)	(2,428)	(2,428)	(2,428)			(2,428)	(2,428)	(2,428)	(2,428)	(2,427)
52	(23,482)	(24,983)	(25,955)	(26,649)		(27,315)	(26,289)	(25,664)	(23,342)	7,365	73,202	90,387
23	\$35,748	\$34,247		\$32,581	\$32,094	\$31,915	\$32,941	\$33,566	\$35,888	\$66,595	\$132,432	\$139,618
54								:				
22	\$49,165	\$48,353	\$46,720	\$45,681	\$45,207	\$45,401:	\$45,275	\$46,870	0 \$47,050 \$7	\$76,400	\$139,896	\$145,506

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_	Cadant, Inc.															
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ო	COMPANY CONFIDENTIAL															
4		Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan	Plan
5		Sep-00	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01		Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01
9																
7	REVENUE	1	-	•		,		•	1,320	2,400	2,640	2,880	3,480	4,800	7,200	8,400
00	-			-		:		:	:		,	:		:		
6	COST OF SALES		1	,		-			. 6//	1,417	1,559	1,701	2,055	2,834	4,251	4,960
우																
Ξ	GROSS MARGIN	,		,		,		: ,	541	983	1,081	1,179	1,425	1,966	2,949	3,440
12																
13	Pre functional split		•		,		•			1			•	•	1	,
14			56	26	40	41	50	51	51	51	46	46	46	46	46	46
15	Communications	186	496	797	417	488	113	113	573	888	418	193	188	378	113	923
16	Marketing	52	53	53	53	53	53	53	53	53	53	53	53	53	53	53
17		43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
18	Operations/Manufacturing	72	75	75	75	22	73	73	73	73	73	7.3	73	73	73	73
19	Sales	30	96	130	140	149	173	183	183	183	183	183	183	183	183	183
20	Engineering	619	648	674	707	733	758	783	808	833	858	883	908	933	958	983
21		31	32	69	33	44	9 :	45	43	45	43	43	43	43	43	83
22		9	40	9	Ŧ	9	10	6	10	σ.	13	12	12	12	12	12
23		(1)	249	258	281	404	327	342	356	371	386	401	416	430	445	459
24	OPERATING EXPENSES	1,386	1,729	2,105	1,799	2,038	1,659	1,694	2,193	2,549	2,117	1,931	1,965	2,195	1,970	2,859
25 26	OPERATING INCOME	(1,386)	(1,729)	(2,105)	(1,799)	(2,038)	(1,659)	(1,694)	(1,653)	(1,566)	(1,035)	(751)	(540)	(528)	676	581
27																
28	Interest income	28	36	38	194	182	211	199	190	181	175	166	159	153	147	140
53	_	37	37	37	37	37	125	122	118	115	112	109	106	103	100	96
30																
32	PRETAX INC(LOSS)	(1,394)	(1,729)	(2,103)	(1,642)	(1,892)	(1,573)	(1,616)	(1,581)	(1,501)	(973)	(694)	(487)	(179)	1,026	624
33	lncome taxes															
8 6	34 NET INCOME!! OSS!	(4 304)	(4 720)	(5 103)	(1.670)	(4 800)	(1 572)	(4.646)	(1 581)	(1 504)	(679)	(604)	(787)	(470)	900+	700
၁		(1,004)	1/27/1			(1,036,1)	. (0.00,1)	(0,0,1)	(100,1)	(100,1)	(2/2)	(034)	(10+)		י מצמי	170

1 1 Flecal Year Ended December 31, 2001 2 2 Flecal Year Ended December 31, 2001 2002 1 4 Phan Plan Plan Plan Plan 5 Dec-01 1st Q 2001 2002 4th Q 2001 2002 2002 6 Dec-01 1st Q 2001 2nd Q 2001 4th Q 2001 2001 2002 6 Dec-01 1st Q 2001 2nd Q 2001 4th Q 2001 2nd Q 2001		Ö	В	S	Ţ	U	^	W	×
Plan Fliscal Year Ended December 31, 2001 Dec.of 1 1st Q 2001 2nd Q 2001 3rd Q 2001 4th Q 2001 2001 10,560	_				Į.				
Plan Fiscal Veat Ended December 31, 2001 Plan	2	:	:	:		:	:		:
Plan Dec-01 1 150 1 1,160 26,160 43,690 1 1 1,160 26,160 43,690 1 1 1,160 26,174 43,690 1 1,160 26,791 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 2001 <t< th=""><th>3</th><th></th><th></th><th>Fiscal Year Er</th><th>nded December</th><th>31, 2001</th><th></th><th></th><th></th></t<>	3			Fiscal Year Er	nded December	31, 2001			
Dec-O1 1st Q 2001 2nd Q 2001 3rd Q 2001 4th Q 2001 2001 10,560 - 6,360 11,160 26,160 43,660 1 6,235 - 2,605 4,571 10,714 17,889 15,446 25,791 4,325 - 2,605 4,571 10,714 17,889 17,889 17,889 4,325 1,18 1,180 760 1,150 4,505 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 17,889 18,78 17,889 17,889 17,889 17,889 17,889 18,78 18,78 17,889 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78 18,78	4	Plan	Plan	Plan	Plan	Pian	Plan	Plan	Pian
10,560 - 6,360 11,160 26,160 43,880 1 4,325 - 2,605 4,571 10,714 17,889 17,889 4,325 - 2,605 4,571 10,714 17,889 17,889 4,325 - 2,605 4,571 10,714 17,889 17,889 46 142 1,880 760 1,150 4,505 17,150 4,505 53 158 129 129 129 129 517 73 129 129 129 517 4,505 10,445 1,008 2,273 2,498 2,774 2,950 10,445 10,445 1,008 2,273 1,114 1,247 1,378 4,812 1,274 2,049 5,381 6,859 6,091 6,091 6,878 7,204 2,276 5,323 2,648 3,878 1,237 1,237 2,329 2,329 4,055 1,230	5	Dec-01	1st Q 2001	2nd Q 2001	3rd Q 2001	4th Q 2001	2001	2002	2003
6,360 11,160 26,160 43,680 1 6,235 - 2,605 4,571 10,714 17,889 4,325 - 2,605 4,571 10,714 17,889 46 142 1,880 760 1,150 4,505 53 158 158 158 6,567 43 129 129 1,29 1,29 1,008 2,273 2,498 2,724 2,950 10,445 43 1,608 2,273 2,498 2,724 2,950 10,445 43 1,608 2,273 2,498 2,774 2,950 10,445 43 1,609 3,31 36 36 113 4474 1,073 1,114 1,247 1,378 4,812 2,248 5,381 6,091 6,091 6,878 25,219 2,249 5,381 (4,254) (1,520) 3,873 (5,323) 140 5,382	9								
6,235 - 2,605 4,571 10,714 17,889 4,325 - 2,605 4,571 10,714 17,889 4,325 - 2,605 4,571 10,714 17,889 4,625 - - - - - 46 1,42 1,880 760 4,505 53 1,68 1,880 760 1,150 4,505 53 1,68 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,29 1,45 1,29 1,41 1,29 1,29 1,41 1,29 1,41 1,29 1,41 1,29 1,41 1,41 1,247 1,378 4,812 2,19 1,41 1,41 1,247 1,378 4,812 2,19 1,41 1,41 1,41 1,424 1,41 1,41 1,41 1,41 1,41 1,41 1,41 1,41 1,41 1,41 1,41	7	10,560	,	096'9	11,160	26,160	43,680	162,294	344,925
6,235 - 3,755 6,589 15,446 25,791 4,325 - 2,605 4,571 10,714 17,889 4,325 - 2,605 4,571 10,714 17,889 4,325 - 1,605 1,150 4,505 - 4,605 1,12 1,150 4,505 - - 5,33 1,180 760 1,150 4,505 - - 5,33 1,180 760 1,150 4,505 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	8								
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4,325 - 2,605 4,571 10,714 17,889 46 142 148 138 567 46 142 1,880 760 1,150 4,505 53 158 158 158 632 43 129 129 129 517 73 219 219 219 875 1,008 2,273 2,498 2,724 2,950 10,445 1,008 2,273 2,498 2,724 2,950 10,445 43 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,049 5,391 (4,254) (1,520) 3,836 (7,330) 2,273 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	10								
46 142 148 138 158 567 113 715 1,880 760 1,150 4,505 53 158 158 158 632 43 129 129 129 517 73 219 219 219 875 163 505 550 550 550 2,155 1,008 2,273 2,498 2,724 2,950 10,445 1,27 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,049 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	Ξ	4,325	1	2,605	4,571	10,714	17,889	71,502	156,856
46 142 148 138 138 567 113 715 1,880 760 1,150 4,505 53 158 158 158 632 43 129 129 129 517 43 129 219 219 875 168 5,05 550 550 516 875 1,008 2,273 2,498 2,724 2,950 10,445 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,049 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	12								
46 142 1480 760 1,150 4,505 113 715 1,880 760 1,150 4,505 53 1,68 158 158 632 632 43 129 129 129 517 875 1,008 2,273 2,498 2,724 2,950 10,445 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	13	,	1	,	•	ı	,	ı	1
113 715 1,880 760 1,150 4,505 53 158 158 158 158 632 43 129 129 129 159 632 73 219 219 219 875 163 505 550 550 2,155 1,008 2,273 2,498 2,724 2,950 10,445 1,2 22 31 36 36 131 474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,049 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	14	46	142	148	138	138	567	839	977
5.3 158 158 158 158 632 4.3 129 129 129 517 4.3 129 219 219 517 163 505 550 550 2,155 1,008 2,273 2,498 2,724 2,950 10,445 4.3 150 132 130 170 582 4.74 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	15	113	715	1,880	2097	1,150	4,505	7,080	10,535
43 129 129 129 129 517 73 219 219 219 875 1608 2,505 550 550 2,155 1,008 2,273 2,498 2,724 2,950 10,445 43 150 132 130 170 582 474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 5,391 (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	16	53	158		158	158	632	755	875
73 219 219 219 875 183 \$05 \$50 \$50 \$50 \$50 \$2,155 1,008 2,273 2,498 2,724 2,950 10,445 43 150 132 130 170 \$82 12 28 31 36 36 131 2,049 5,391 6,859 6,091 6,878 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 2,276 5,391 (4,054) (1,520) 3,836 (5,044 93 2883 346 479 427 2,044 93 2883 346 479 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	17	43	129		129	129	517	535	553
163 505 550 550 550 2,155 1,008 2,273 2,498 2,724 2,950 10,445 43 150 132 130 170 582 12 28 31 36 36 131 474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 479 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	18	73	219	219	219	219	875	913	952
1,008 2,273 2,498 2,724 2,950 10,445 43 150 132 130 170 582 12 28 31 36 36 131 474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	1	183	505	550	550	929	2,155	4,861	7,871
43 150 132 130 170 582 12 28 31 36 36 131 474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,878 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	8	1,008	2,273	2,498	2,724	2,950	10,445	13,207	14,421
12 28 31 36 36 131 474 1,073 1,114 1,247 1,376 4,812 2,049 5,391 6,859 6,091 6,876 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 479 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	21	43	150	132	130	170	582	846	1,000
474 1,073 1,114 1,247 1,378 4,812 2,049 5,391 6,859 6,091 6,876 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	22	12	28	31	36	36	131	144	144
2,049 5,391 6,859 6,091 6,878 25,219 2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	23	474	1,073	1,114	1,247	1,378	4,812	9,481	11,971
2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	24	2,049	5,391	6,859	6,091	6,878	25,219	38,662	49,300
2,276 (5,391) (4,254) (1,520) 3,836 (7,330) 140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	25								
140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	26	2,276	(5,391)	(4,254)	(1,520)	3,836	(7,330)		107,555
140 592 546 479 427 2,044 93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	27								
93 283 346 318 289 1,237 2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	28	140	265	546	479	427	2,044	1,832	2,173
2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	83	93	283	346	318	289	1,237	599	- !
2,323 (5,082) (4,055) (1,360) 3,973 (6,523) 2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	30								
2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	સ	2,323	(5,082)	(4,055)		3,973	(6,523)		109,728
2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	32								
2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	33		,	,	1			3,666	43,891
2,323 (5,082) (4,055) (1,360) 3,973 (6,523)	34								
	35	2,323	(5,082)	(4,055)	(1,360)	3,973	(6,523)	30,706	65,837

	A	8	0	۵	ш	Li_	_	G	I	_	_
2	Cadant, Inc.										
	TATEMENT OF CASH FLOWS					en de la companya de					
4					-					:	
IJ						COMPANY CONFIDENTIAL				-	
9 1		-	:	-	:				:		
80		2000	2000	2000	2000	2001		2001	2001	2001	2001
6 9		Sept	8	Nov	Dec	Jan	-	Feb	Mar	Apr	Мау
F						AND AND ADDRESS OF THE PROPERTY OF THE PROPERT		and the second s			
12 0	OPERATING ACTIVITIES										
13 N		(1,394)	(1,729)	(2,103)	(1,642)		(1,892)	(1,573)	(1,616)	(1,581)	(1,501)
14 ac	add back derpeclation/amort	124	48	54	74		97	111	124	137	150
15 Is	Issuance of Com Stck for servs			:							
	Chandes in operating assets/labs										
		-		1	-		-	,	-	(330)	(270)
19 A	Accounts recievable - affiliates				:			: '		· · · · · · · · · · · · · · · · · · ·	
2 2	Inventory - Finished goods	,			,	The state of the s		(283)	(354)	283	213
21 In		(1,000)	(200)	(300)	(200)	1		283	354	399	(170)
	Notes receivable						· .			: ;	
23 P	23 Prepaid expenses		,				(10)		'	,	
24 In	Investments	-	-	1					-		
25 C	assets	,	•	,			(20)	•	•	,	
26 S	Security deposits	-		-				,	,	,	1
27 A	Accounts payable	634	(328)	0	(308)		(79)	(254)	ß	(388)	834
28 ₩		(220)	137	150	(122)		97	(151)	4	147	161
29 In	Income taxes payable	1	-	1			•	*	-		-
8	Deferred revenue	• !	:				• ;		•	• !	• :
3	Other accrue LT liab	•		-	,	rikeriken den mikkun deskumpun er er et deskummungsmenskur er er en en en en en en et er en en en en en en en		,			
32 N	NET CASH PROVIDED BY (USED										
원 8	BY) OPERATING ACTIVITIES	(1,856)	(2,373)	(2,200)	(2,198)		(1,808)	(1,867)	(1,474)	(1,333)	(553)
35 11	INVESTING ACTIVITIES										
36 F	Fixed asset additions	(270)	2,740	(230)	(740)		(850)	(260)	(480)	(480)	(480)
37 N		(270)	2,740	(230)	(740)		(820)	(260)	(480)	(480)	(480)
88											COCCOCCIONISTI ALIANAMANA AND AND AND AND AND AND AND AND AND
39 40	39 FINANCING ACTIVITIES 40					:					:
41 P	Proceed from issuance of Common stock	,	-	40,000	,			•	,	ı	,
42	Line of credit		,:	• :	•		• :		•	•	
43 B		4,000	•				9,585	(327)	(330)	(334)	(337)
44 P	Proceeds from capital leases	'	٠	,	•		,		,	•	,
45 P	Proceeds from exercise of stock options				:					:	
46 P											
47 P	Purchase of Treasury stock						-	-			
48 N	NET CASH PROVIDED BY										
	USED IN> FINANCING ACTIVITIES	4,000	-	40,000			9,585	(327)	(330)	(334)	(337)
20							-				

	A	В	ပ	Ω	Ш	<u></u>	g	I	_	5
51	51 INCREASE <decrease> IN</decrease>									
52	52 CASH & CASH EQUIVALENTS	1,874	367	37,570 (2	(2,938)	6,927	(2,755)	(2,284)	_	(2,147) (1,369)
53										
54	54 BEGINNING CASH & CASH EQUIV	608'9	8,683	050'6	46,620	43,683	50,610	47,855	45,571	45,571 43,424
55		-							-	
26	56 ENDING CASH & CASH EQUIV	8,683	090'6	46,620	43,683	50,610	47,855	45,571	43,424	42,054

2 8 4 7 9 7 8 8 6 0 1 1 2 1 1 1 1 1 1 1	2001 June (973)	Cadani Inc	-							
8 4 4 9 0 0 0 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2001 June (973)	on! trebec				,			:	
4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2001 June (973)	out the		;	:	:		:		
0 0 1 1 2 2 1 4 1 2 1 2 1 2 1 2 1 2 1 2 1 2	2001 June (973)	בייייייייייייייייייייייייייייייייייייי								
7 8 8 8 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2001 June (973)	Cauality inc.								
8 6 0 1 1 2 2 4 5 9	2001 June (973)			* * * * * * * * * * * * * * * * * * *			:	Fiscal Year	Fiscal Year	Fiscal Year
0 0 1 2 2 2 4 5 9	(973) 164	2001	2001	2001	2001	2001	2001	2001	2002	2003
0 1 2 2 4 5 9	(973)	July	Aug	Sept	Ö	Nov	Dec			
5 5 4 5 9	(973)						Manual Morphisas Constitution of the State o			
2 2 4 2 9	(973)									
2 4 6 9	164	(694)	(787)	(179)	1 026	624	2 2 2 2	(6 523)	30 708	65 837
15 15	104	The second secon	(/0+)	(6/1)	070,1	420	6,00			
2 9		1//	061	503	912	622	242	2,041	5,118	10,459
0		- 2	;	:	:	-				
171										• •
<u>ع</u>	(60)		(150)	(330)	(008)	(300)	(540)	(19 640)	(1 oca)	(F 600)
2 9	,		(001)	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	()	(000)	(0+0)	(5,510)	:	:
2 8	142	•	,	-		*		*	(8.071)	(24,995)
2	(227)	(283)	(624)	(1,134)	(567)	(1,020)	(20)	(3,038)		
8										
ಜ		,		•	-		,	(10)		
24	•		,		,					
55	,				-			(20)		
92						•				
52	(148)	72	345	630	(602)	076	(1,460)	D	Si.	ΟV:
₹ 3	(173)		4	- 65	(06)	356	(354)	76	528	589
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_ල ද	• :				•		• ;		* !	
5 8	•		•		•	-			•	
31 3										
34 33	(1,274)	(863)	(712)	(718)	(724)	828	191	(10,275)	26,603	36,886
35								•		*
36	(490)	(480)	(480)	(480)	(480)	(480)	(480)	(6,220)	(12,300)	(005,81)
37	(490)	(480)	(480)	(480)	(480)	(480)	(480)	(6,220)	(12,300)	(19,500)
88	Absorption of the second							***	-	-
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- 5		,	,	- + -	-	,				
2 2 :		(0.40)	- (976)	(3/0)	(950)	(956)	(950)	, o		(020)
3 2	(0+0)		(0+0)	(0+0)	(200)	(000)	(600)	2		
‡ £								•		
2 4							:			
5 4							-			
84								-	•	
49	(340)	(343)	(346)	(348)	(352)	(356)	(328)	5,813	(4,841)	(4,972)
മ								•		

Н	¥		Σ	Z	0	Ъ	σ	Ж	S	_
51										
52	(2,104)	(1,686)	(1,538)	(1,547)	(1,556)	24	(647)	(10,682)	9,462	12,414
53									1	ı
54	45,054	39,950	38,265	36,727	35,180	33,624	33,648	43,683	33,000	42,463
22										
56	39,950	38,265	36,727	35,180	33,624	33,648	33,000	33.000	42,463	54.877

	Α	В	С	D	E
1		Cadant, Inc.	1		ASSUMPTIONS
2		Revenue, COGS & Inventory Forecast	+		C4 CMTS
3					Additional Cards
4					D-CARDS
5			-		E-CARDS
6			 		F-CARDS
7					M-CARDS
8		(\$000 except unit price & cost)			
9		(C	+		
-	UNIT SALES		Jul-00	Aug-00	Sep-00
11			1	- -	
12	C4 CMTS		-	<u> </u>	-
-	D-CARDS		-	-	-
	E-CARDS				-
	F-CARDS				-
	M-CARDS				
17	OTHER		-	-	_
18	OTTEN		-		
19	TOTALS (ALL PRODUCTS)		-		-
20	TOTALS (ALETTIODOSTO)				
21	REVENUES				
22	TIEVENOES		 		
23	C4 CMTS		<u> </u>	_	_
24	D-CARDS		 		
-	E-CARDS		+		
-	F-CARDS				
	M-CARDS				
28	OTHER			-	_
29	OMEN		-	-	
30					
31	GROSS REVENUES		-	-	
32	CHOSS HEVENOES				
33	COST OF SALES				
34	COST OF SALES				
\vdash	C4 CMTS			-	
35 36	D-CARDS		-	-	
_	E-CARDS		-	<u> </u>	_
-	F-CARDS				
	M-CARDS		 	<u> </u>	
$\overline{}$	OTHER		-		
40	OTTEN		-	-	
41	Total Cost of Sales			-	_
42	rotal Cost of Sales			-	_
43			 		The last control of the control of t
44					The information contained herein is Cadant Proprietary & Confidential
45					All estimates presented here are based on the industry market opportunity as well as internal planning by Cadant Sales & Marketing Team and are subject to change without notice.
46					Please request authorization from Cadant prior to distribution of this information

ГТ	F	G	Н	ı	J	К	L	М	N	0	Р	Q	R	S	T
1				UNIT PRICE		UNIT COST		UNIT MARGIN				1			
2				120,000		70,854.43		41%		•	!				
3				13,188		4,470.15		60%		-					
4				24,750		6,668.50		60%		<u>;</u>					
5				12,000		4,674.40		61%							
6				10,000		4,126.15		59%		i					
7				6,000		2,411.55		60%							
8						2,177100									
9		i								· · · · · · · · · · · · · · · · · · ·					
10	Oct-00	Nov-00	Dec-00	Jan-01	Feb-01	Mar-01	Apr-01	May-01	Jun-01	Jul-01	Aug-01	Sep-01	Oct-01	Nov-01	Dec-01
11										i					
12	- 1	- :	-	_	-	-	11	20	22	24	29	40	60	70	88
13	- 1	- i		-	-	-	.,,	-							
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15		i		_	_				-						
16	-	- i	_	-	-	-				- :					
17	-				-	_	-	-	-	-	_		_	-	-
18															
19	-	_ :		-	_	_	11	20	22	24	29	40	60	70	88
20										2.7	- 20			,,,	
21															
22								-				1			
23	_	- :	-	-	-	_	1 220	2,400	2,640	2,880 :	3,480	4,800	7,200	8,400	10,560
24		i		-	-	-	1,320	2,400	2,040		3,400	4,000	7,200		10,300
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27			-				-				-				•
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29															*******
30		Ì			-		4 000	0.400	0.040	2.000	3 480	4.000	7,200	9.400	10 FC0
31		-	-	-	-	-	1,320	2,400	2,640	2,880	3,480	4,800	7,200	8,400	10,560
32										I					
33														-	
34									1.550	1 701	2055	0.004	4.054	4.000	6.005
35	-	- I	-	-	-	-	779	1,417	1,559	1,701	2,055	2,834	4,251	4,960	6,235
36	-	- ;	-	-	-	-				<u>-</u>					
37		 			- [-				<u> </u>					
38		i		:	-	-									
39					-	-				i					
40			-	-	-	-	-	-		<u> </u>	- !	-			
41										i	0.000	0.004	4.054	4.000	0.005
42	-		-	-	-	-	779	1,417	1,559	1,701	2,055	2,834	4,251	4,960	6,235
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6 7			
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8			
9	2001	2002	2003
10 11	2001	2002	2003
12	364	1 107	2 177
	304	1,127	2,177 1,691
13	_	546	
14		364	1,127
15	-	364	1,127
16	-	364	1,127
17	-	-	-
18	2004	0.705	7040
19	364	2,765	7,249
20			
21			
22	40.000	105.007	001.000
23	43,680	135,267	261,229
24	-	9,009	27,899
25	-	6,006	18,599
26		6,006	18,599
27	-	6,006	18,599
28			
29			
30	40.000	100.004	244.005
31	43,680	162,294	344,925
32	_		-
33	-		
34	OF 704	70.000	454044
35	25,791	79,869	154,244
36	-	3,641	11,275
37	-	2,427	7,517
38		2,427	7,517
39	-	2,427	7,517
40			
41	0F 704	00.700	100.070
	25,791	90,792	188,070
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Corporate Overview



Agenda



- Company Overview
- Market Analysis
- Marketing Strategy
- Technology and Products
- Operations
- Lab Tour
- Financials
- Summary & Discussion





Cadant Overview



Company Overview



INNOVATIONS IN BROADBAND

Who We Are

 Cadant is a high-speed networking products company dedicated to bringing Internet and multimedia services to mass markets.

What We Do

Develop scalable, reliable, high-performance, **JOCSIS 1.1 and PacketCable system that** bring high-speed broadband data and IP telephony services to mass markets.



Company Overview



INNOVATIONS IN BROADBAND

Founded in March 1999

- Headquarters in Lisle, Il
- Major sales Offices in Lisle, IL; Denver, CO; remote offices throughout the U.S.
- Outsource manufacturing in Oklahoma City, OK

Financial support

- \$10 million in individual and angel investors \$13 million venture round with Venrock, H&Q, and Chase Capital Partners
- \$9 million in lease & equipment financing w/ Comdisco

108 employees

- telecommunications & broadband data network experience CEO, CTO, and VP Eng. have over 45 years combined
- Over 80 engineers
- Lucent, Bell Labs, Tellabs, 3Com, Westell, US Robotics, Motorola
 - Company average of $\sim\!15$ years experience in cable, telecom, gigabit ATM, and router technologies
 - Innovative 19 patents pending for technology developments



Corporate Leadership



NNOVATIONS IN BROADBAND

Management Team

Venkata Majeti Tom Cloonan Dan Hickey Gene Rosendale Kevin Johnson

CEO CTO VP – Engineering VP – Marketing & Product Mgt Controller

Board of Directors

Venkata Majeti Eric Copeland Mark Rochkind Jay Vohra Randy Lyon

President & CEO General Partner, Venrock Assoc President, Exeter Lane Assoc. President & CEO, Isourcing Managing Director, J.P. Morgan



Corporate Leadership



INNOVATIONS IN BROADBAND

Technical Advisory Board

Stephen Dukes (Chairman) David Bukovinsky

Walter Ciciora

Nick Hamilton-Piercy

Steve Craddock

Former VP, Digital Technology, MediaOne, and TCI

VP, Engineering, Wild Blue;

CableLabs

Former CTO, Time Warner

Cable

VP, Engineering & Technology

Rogers Cable

VP, Strategic Planning, Comcast





Market Analysis



CMTS Market



INNOVATIONS IN BROADBAND

Highly consolidated target market

- 100M Homes passed (HHP) in US
- 250M HHP in ROW
- Top 7 US MSOs cover 80% of HHP

First-Generation products have already

- Validated the technology
- Validated DOCSIS standard
- Validated the market

MSOs growing increasingly more sophisticated about their needs



CMTS Market



INNOVATIONS IN BROADBAND

CMTS market is growing rapidly

Key trends in the MSO business

- Differentiated services (e.g., guaranteed service levels) to segment data subscribers and create greater revenue
- Cable telephony has proven market penetration and profitability
- Move towards IP telephony to reduce costs, streamline ops, and offer killer apps

New requirements from MSOs

OOCSIS 1.1 QoS and security, and wire speed performance Carrier-grade reliability, higher capacity and scalability,

Significant market opportunity

- Dataquest projects annual worldwide CMTS revenue of \$2.5B in 2003, \$6B cumulative
- Cadant estimates long term TAM at \$8-12B
- Estimates of market size have increased over time

CMTS Competitors



INNOVATIONS IN BROADBAND

Original, proprietary DoC pioneers

- Terayon, Com21, LanCity—
- Lost the war in Gen-1 DOCSIS against large entrants

Large First-Generation CMTS vendors

- Cisco, Arris, Motorola, 3Com
- Cisco with leading market share in Gen-1 DOCSIS (70-75%)
- All stumbling with Gen-2 developments

New Second-Generation market entrants

- Cadant --- Chassis-based DOCSIS 1.1 design; Carrier grade DNA; high density and scalability
- advantage; DOCSIS 1.0 design; doubtfully upgradeable to 1.1 **Broadband Access Systems/ADC ---** Time to market
- River Delta --- Target design specifications similar to Cadant; strong router orientation; "pizza box" implementations at Interop; chassis-based in development



Marketing Strategy



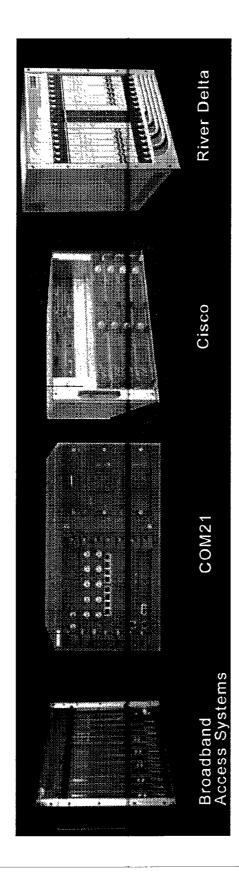
Marketing Strategy



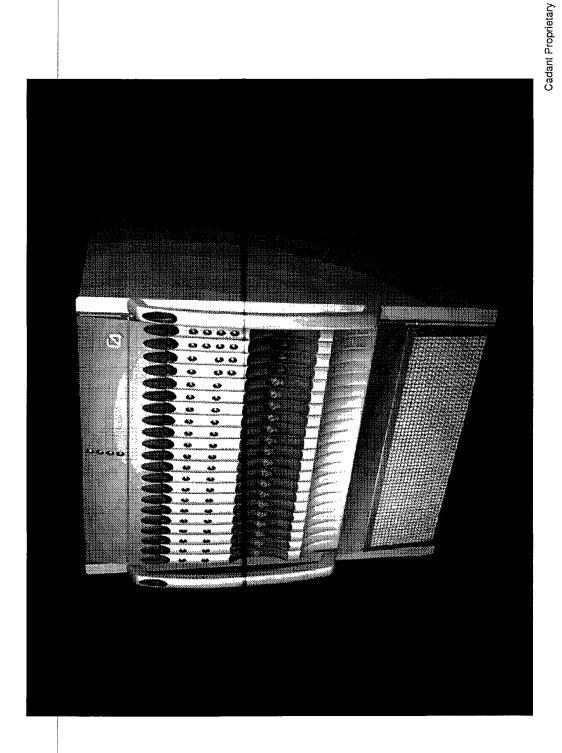
- Target the top 7 US MSOs, top 3 Canadian MSOs, and major U.S. Over builders
- Provide the strongest DOCSIS 1.1 CMTS offering to the
- Launch product at Western Show
- MSO trials beginning December 2000
- Pursue strategic alliances for complete solution offerings in converged high-speed data and IP telephony
- Leverage trials and CableLabs for validation
- **Establish PacketCable Customer Trials**
- Follow quickly with EuroDOCSIS support
- Exploit platform for derivative products in other Broadband sectors, e.g., fixed wireless and DSL





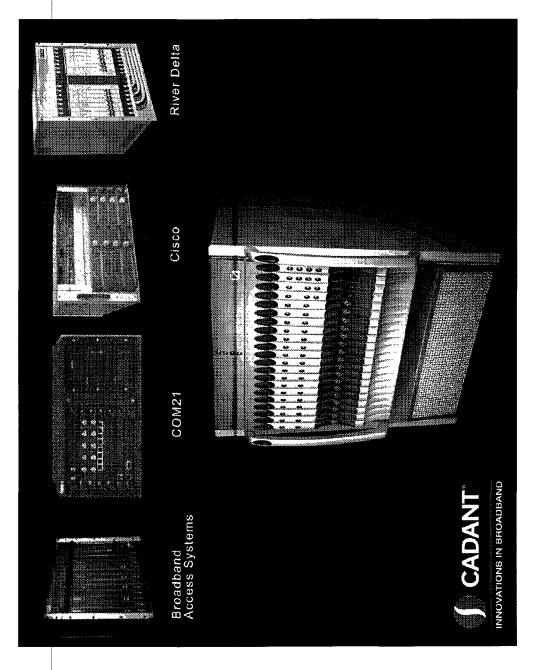








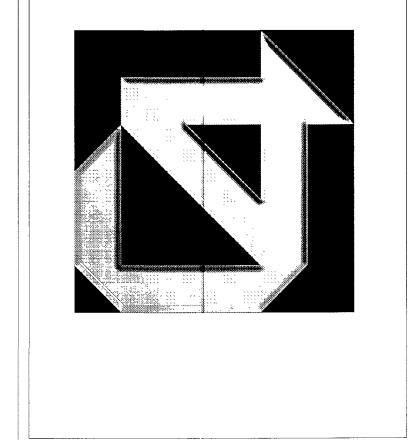






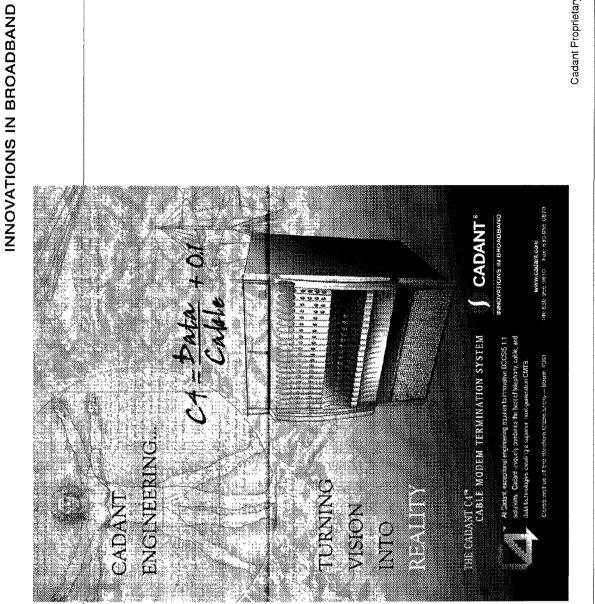
Cadant CMTS













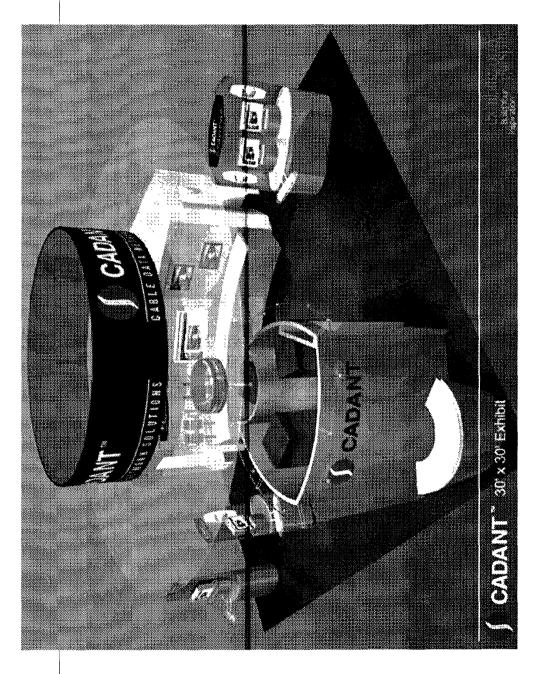


Western Cable S Trade Journal Ac	Show Adver	Show Advertising & Promotion Plan – INNOVATIONS IN BROADBANI Ids
CED	(Nov.issue) (Dec.issue)	Western Show preview issue Western Show issue, includes bonus distribution at the show
	(Oct.30 issue) (Nov.20 issue) (Nov.27 issue)	Western Show preview issue Western Show issue, includes bonus distribution at the show
Cablevision	(Nov.27 issue)	Western Show issue, includes bonus distribution at the show
Cablevision	Cablevision Blue Book	Western Show daily supplement
Communications Technology	(Nov. issue) (Dec. issue)	Western Show preview issue Western Show issue, includes bonus distribution at the show
CableWorld	(Nov.20 issue) * (Nov.27 issue)	Western Show preview issue Western Show issue, includes bonus distribution at the show
BROADCASTINGSABLE	(Nov.27 issue)	Western Show issue, includes bonus distribution at the show



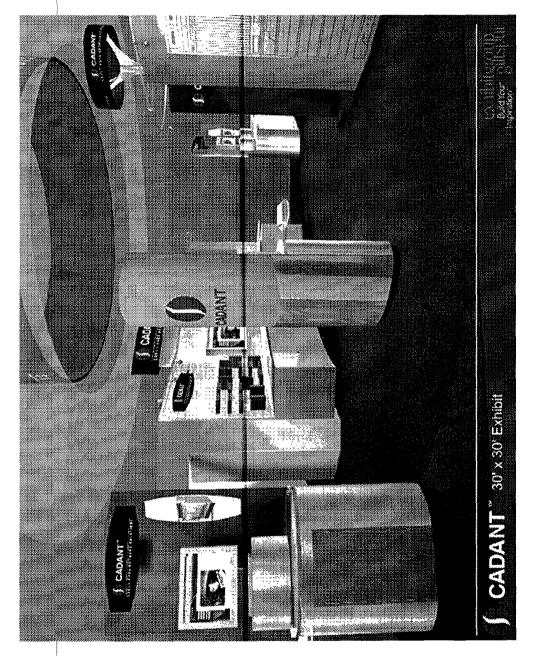
Cadant Proprietary

CADANT® IN BROADBAND



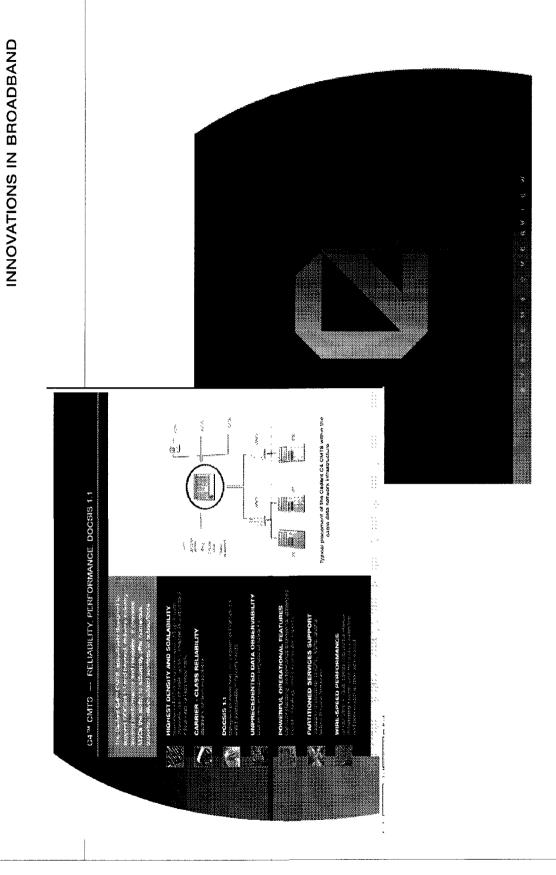






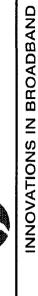


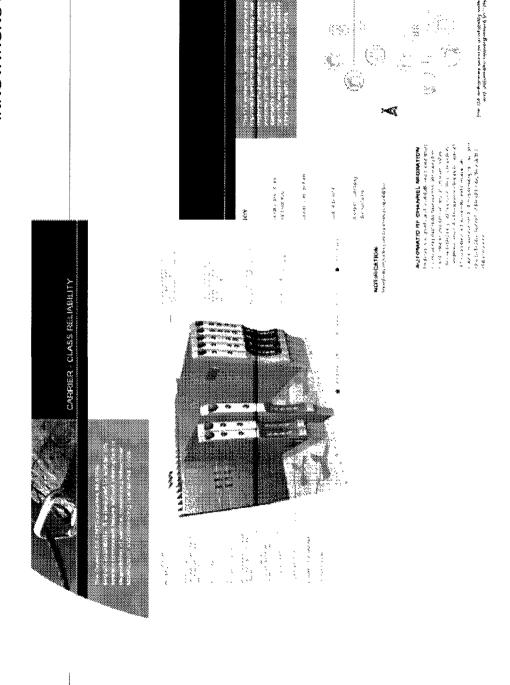








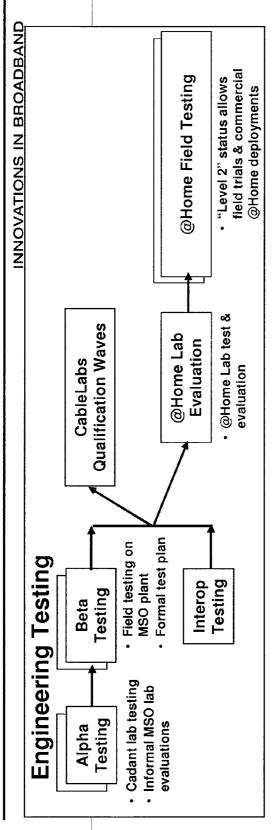


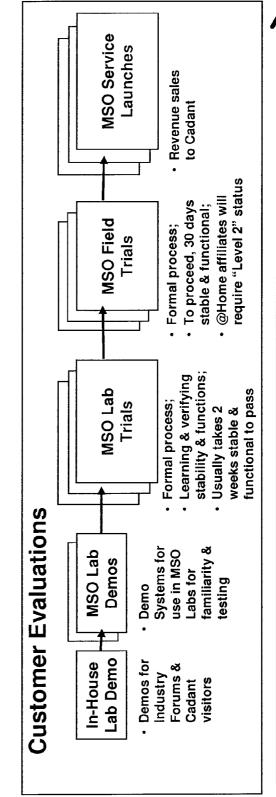




Product Launch Schedule 🌑 CADANT









Partnership Programs



INNOVATIONS IN BROADBAND

Cadant Partner

Basic product interoperability

Technology Partner

- Basic product interoperability
- development and partner's development, e.g., Texas Instruments Technical alliance to further advance both Cadant's

Strategic Partner

- Basic product interoperability
- Includes strategic feature interoperability, e.g. PacketCable
 - Includes joint marketing
- May include technology partnership
- May include strategic investment



Cable Modem Partners

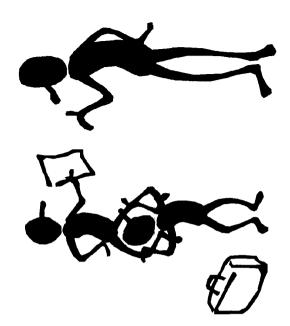


INNOVATIONS IN BROADBAND

In discussions with 10

Cable Modem vendors

- Expect 7 in Cadant booth at Western Show
- 3Com
- Best Data
- **BroadCom***
- Future Networks*
- Texas Instruments*
- ** Thomson
- TurboNet
- * Technology partner
- # Moving toward strategic partner/investor





Operations System **Partners**



NNOVATIONS IN BROADBAND

Have investigated 8 OS

vendors

Expect 2 in Cadant booth at **Western Show**

Core Networks*

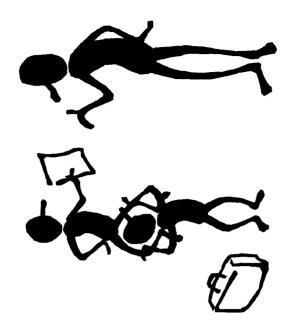
Brings Cox deployment

BroadJump

Defacto CPE provisioning

system Brings 1M license contract with TW

* Technology partner





PacketCable Partners



INNOVATIONS IN BROADBAND

Have investigated 8 vendors

in the areas of

- Media gateway
- Call Agents (both stand alone and IPDT)
- SS7 Signaling Agents



- Future Networks*
- General Bandwidth**



** Strategic partner





INNOVATIONS IN BROADBAND

Technology and Products



Product Overview

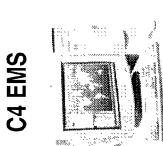


INNOVATIONS IN BROADBAND

Carrier-class, broadband cable network solutions

C4 CMTS





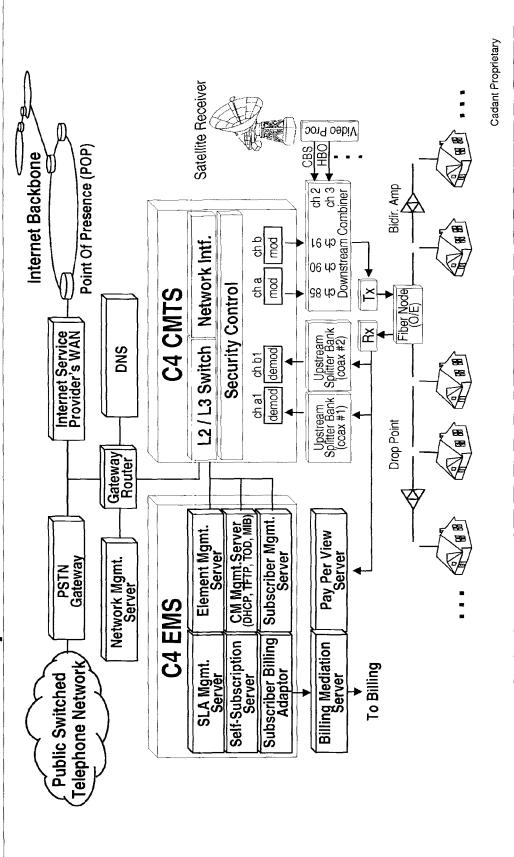


Product Overview



NNOVATIONS IN BROADBAND

Integrates seamlessly with headend and plant infrastructure





C4TM CMTS Key Features (**) CADANT



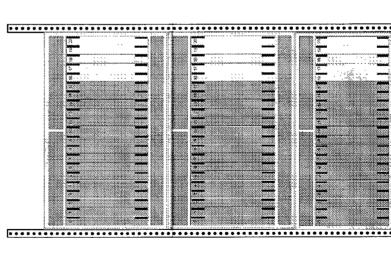
NNOVATIONS IN BROADBAND

- High Density & Flexible Scalability
- Carrier-Class Availability
- Wire-Speed QoS and Observability
- Carrier-Class Operational Capabilities
- Flexible Architecture

High Density



NNOVATIONS IN BROADBAND Supports subscriber growth with the highest density and scalability offered in the Industry



Maximum Density

- upstream channels per chassis Up to 32 downstream and 128
- Three chassis per standard 7ft. high, 19" wide rack
- and 384 upstream channels per Total of up to 96 downstream
- Reduces Headend Maintenance Complexity
- Reduces inter-shelf cabling
- Promotes lower installation, operational, and ongoing maintenance costs



C4TM CMTS Key Features 🌗 CADANT



NNOVATIONS IN BROADBAND

- High Density & Flexible Scalability
- Carrier-Class Availability
- Wire-Speed QoS and Observability
- Carrier-Class Operational Capabilities
- Flexible Architecture

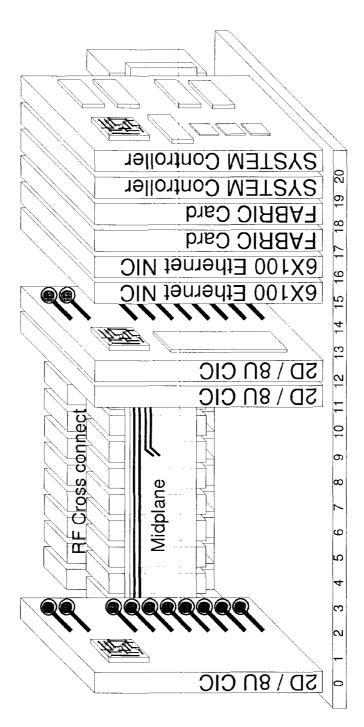


Cadant Proprietary

Carrier-Class Availability 🌓 CADANI



NNOVATIONS IN BROADBAND Uniquely designed to sustain any system component failure without interruption of service



Primary system components

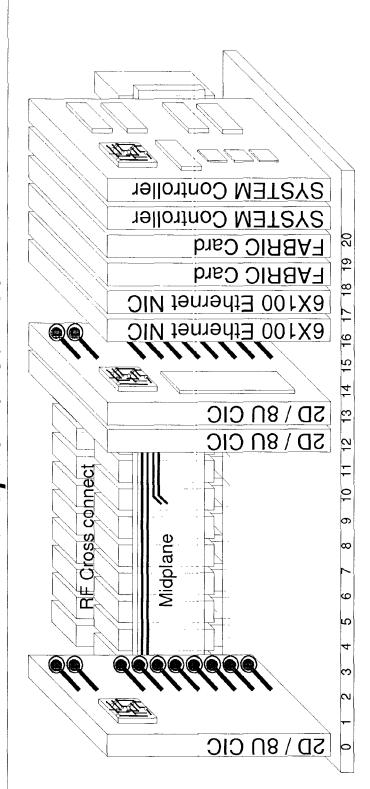
- Cable Interface Card (CIC) System Controller Card
- Fabric Card
- RF Cross connect Midplane Design Network Interface Card (NIC)

Cadant Proprietary

Carrier-Class Availability



NNOVATIONS IN BROADBAND Uniquely designed to sustain any system component failure without interruption of service



No single point of failure

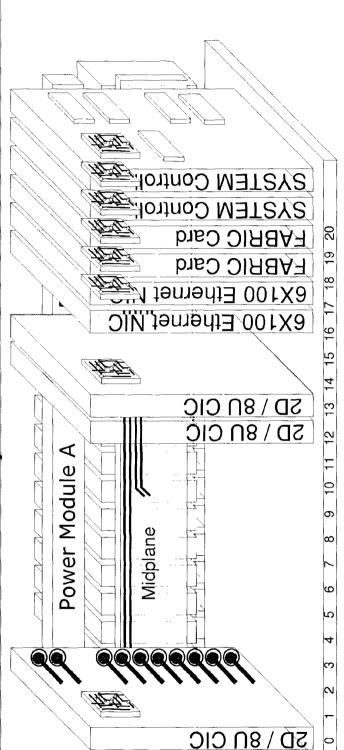
- Duplex control complex System Controller and Fabric cards
- Configurable sparing 1+1 or N+1 on NIC and CIC cards
- RF Interface modules can be switched without dropping cable modems

Carrier-Class Availability 🌓 CADANT



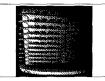
NNOVATIONS IN BROADBAND

Uniquely designed to sustain any system component failure without interruption of service



Fault Recovery

- Recovery initiated after >= two of four controlling processors concur
- Recovery actions taken on a per-board level
- Faulty board can be completely isolated including removal of power



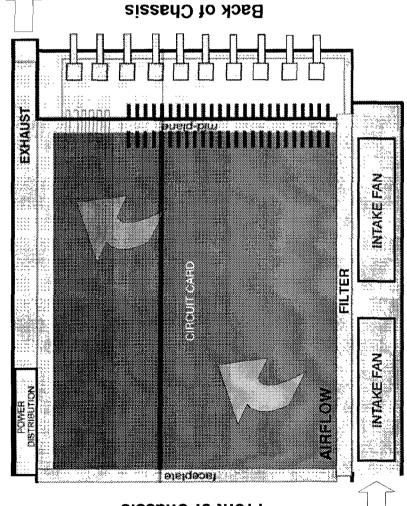
Carrier Class Availability 🌗 CADANT



NNOVATIONS IN BROADBAND

Airflow design improves reliability by ensuring proper cooling of "hot" RF components Heat sensors on every board

Speed sensor on fans







C4TM CMTS Key Features 🌗 CADANT



NNOVATIONS IN BROADBAND

- High Density & Flexible Scalability
- Carrier-Class Availability
- Wire-Speed QoS and Observability
- Carrier-Class Operational Capabilities
- Flexible Architecture



Wire-Speed QoS and Observability



INNOVATIONS IN BROADBAND

Hardware-based implementation

Wire-Speed Defined

than the shortest possible inter-packet arrival time; even when the system is 100% loaded with sustained 64-byte The execution of all packet-level processing in less time packets

Unprecedented wire-speed capabilities

- DOCSIS 1.1 Quality-of-Service elements (required or optional)
- Beyond DOCSIS All counts for billing, performance monitoring, trouble shooting, traffic engineering

Unprecedented usage of system traffic data

Wire-Speed QoS and Observability



NNOVATIONS IN BROADBAND Enable new subscriber services and enhance revenue opportunities

Full DOCSIS 1.1 Compliance - Required and Optional

Multiple upstream service types
 (i.e., UGS, UGS/AD, rtPS, nrtPS, BE)

Downstream packet classifiers

Payload header suppression (PHS)

Upstream packet fragmentation

Upstream packet concatenation

Differentiated service class support

Service flow policing

Security enhancements (BPI+)

Advanced MIB support



Cadant Proprietary

Wire-Speed QoS and Observability



NNOVATIONS IN BROADBAND

Wire-speed, content-aware packet processing guarantees delivery of differentiated services

Fabric Nework Side

Subscriber side

traffic shaping

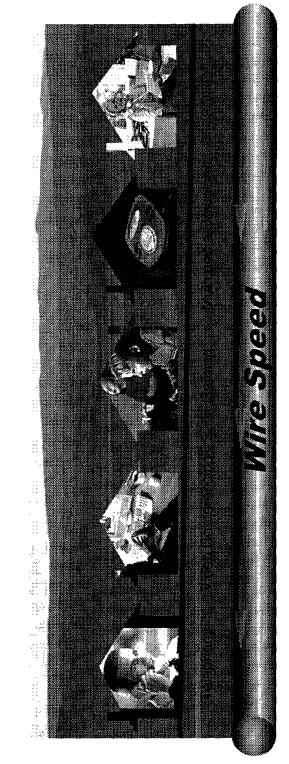
Per-flow

- Diff-Serv
 - MPLS RSVP+
- Flow-based classification
- Packet prioritization (based on Layer 2, 3, and 4 information)
- Extensive Layer 2, 3, & 4 filtering
- Per-flow policing
- Hard-limiting and soft-limiting flow control
- WRED congestion control based on flow priority and flow activity
- Fine-grain activity sensitive congestion control over 70 tunable parameters
- Priority-based queuing 384 queues
- Priority-based scheduling (combining both Strict Priority and Self Adjusting

Wire-Speed Observability (CADANT

INNOVATIONS IN BROADBAND

Complete insight into every packet enhances revenue opportunities and guarantees SLAs



- Advanced billing opportunities
- Multiple ISP management

Multiple CPE management

Enable marketing initiatives

- Capacity planning
- Traffic engineering
- Performance monitoring
- Customer service



C4TM CMTS Key Features 🌗 CADANT



NNOVATIONS IN BROADBAND

- High Density & Flexible Scalability
- Carrier-Class Availability
- Wire-Speed QoS and Observability
- Carrier-Class Operational Capabilities
- Flexible Architecture



Carrier-Class Operational Features



NNOVATIONS IN BROADBAND Historical information combined with powerful troubleshooting applications pinpoint failures

Advanced maintenance GUI

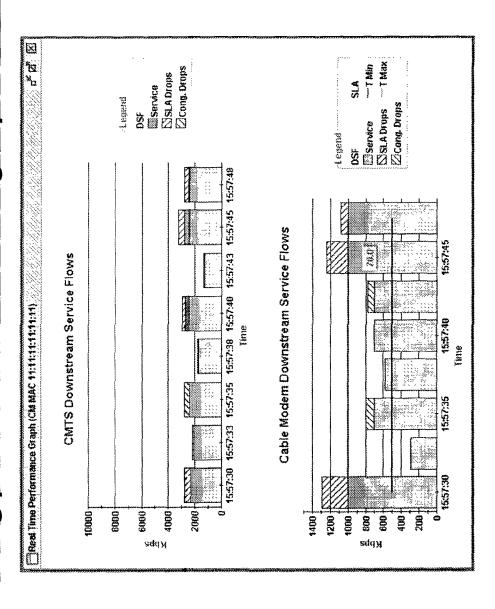
- Alarm / error condition notification
 - Supports multiple CMTSs
 - MIBS browser
- Pinpoints intermittent plant faults using HFC plant view
- MSOs can precisely direct truck rolls to faulty locations

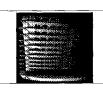


Carrier-Class Operational Features



INNOVATIONS IN BROADBAND Fine-grained counts collected at wire speed provide outstanding performance monitoring capabilities





Operational Features Carrier-Class

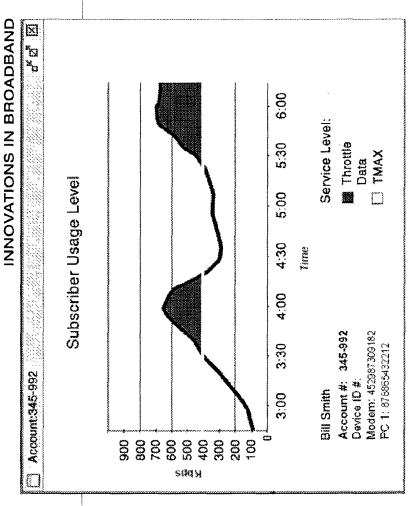




slow service at 5:45 PM on Customer calls in about Monday.



service representative access to customer immediately has MSO customer specific data.



get more bandwith they need to upgrade service usage exceeded their service level. In order to 3. Based on subscriber usage information, the CSR tells the customer that their actual data



C4TM CMTS Key Features (**) CADANT



NNOVATIONS IN BROADBAND

- High Density & Flexible Scalability
- Carrier-Class Availability
- Wire-Speed QoS and Observability
- Carrier-Class Operational Capabilities
- Flexible Architecture

Flexible Architecture



INNOVATIONS IN BROADBAND

Designed to easily integrate external functionality

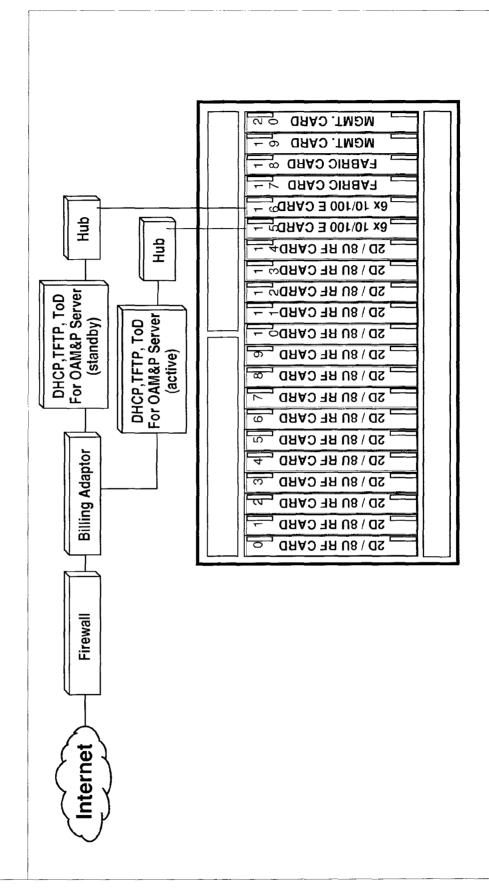
- FPGA logic and software is field upgradeable
- Architected to support a wide variety of future applications
- Integration of external servers and routers

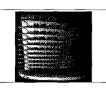


Flexible Architecture



INNOVATIONS IN BROADBAND Designed to easily integrate external functionality

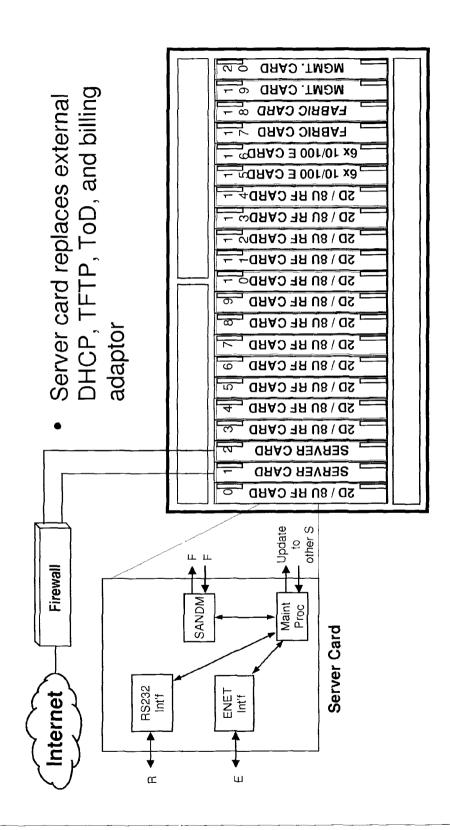




Flexible Architecture



INNOVATIONS IN BROADBAND Designed to easily integrate external functionality





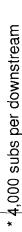
C4™ CMTS Summary



NNOVATIONS IN BROADBAND

, Fility

- Scalability
- 32 Downstream Channels
- 128 Upstream Channels
- 128,000 maximum subscribers*
- Density
- 21 Slot Chassis
- 3 Chassis per 7 foot rack
- Carrier Class
- **Flexibility**
- 1D/4U, 1D/8U, 2D/2U, 2D/6U, 2D/8U
- Multiple network interface cards
 - HW based wire speed processing
- Quality of Service (QoS)
- Per flow classification / queuing (384 queues)
- Beyond DOCSIS 1.1



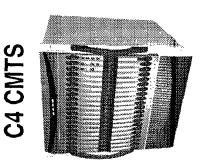
C4™ CMTS Summary



NNOVATIONS IN BROADBAND

- Standards
- **DOCSIS 1.1**
 - PacketCable
 - Open Access
- Unlimited ISPs
 - Security

- VLANAnti-SpoofingARP flood protection
 - Redundancy
- Redundant across all elements
 - Hot swappable
 Switching Bandwidth
- 5X DOCSIS requirements6.4 Gbps







INNOVATIONS IN BROADBAND

Operations



Manufacturing



NNOVATIONS IN BROADBAND Partnership with Hitachi as contract manufacturer

Hitachi handles:

- Parts procurement
- Verification
- Manufacturing
 - Shipment
- Warranty servicing
- Cadant provides design release package with requisite information for final production
- Straightforward, minimal cost separation arrangement



Manufacturing



NNOVATIONS IN BROADBAND

Hitachi manufacturing capabilities available to Cadant

production, testing, shipping, and support 160,000 sq ft facility for warehousing,

4 SMT lines (3 production and 1 prototype)

Fine pitch component capabilities to 0.3mm

BGA capability (600 pin)

no-clean capability

Multiple product test capabilities

In Circuit Testing (ICT)

Highly Accelerated Life Test (HALT)

Application test capabilities.

Supply Chain Management



INNOVATIONS IN BROADBAND Component supplier quality is critical to product quality assurance

Hitachi and component suppliers involved in

- Initial design and prototype
- Parts selection
- Performance
- Design for manufacture
- Cost reduction programs

Parts management/availability handled by Hitachi and component supplier

Special consideration to long lead parts





INNOVATIONS IN BROADBAND

Engineering Lab Tour





INNOVATIONS IN BROADBAND

Financials



Cadant Proprietary

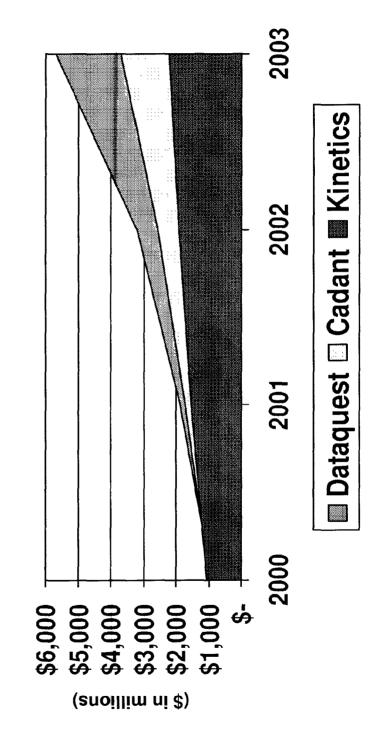
Projected DOCSIS CMTS Revenue



INNOVATIONS IN BROADBAND

DOCSIS CMTS Projected

Cumulative Revenue



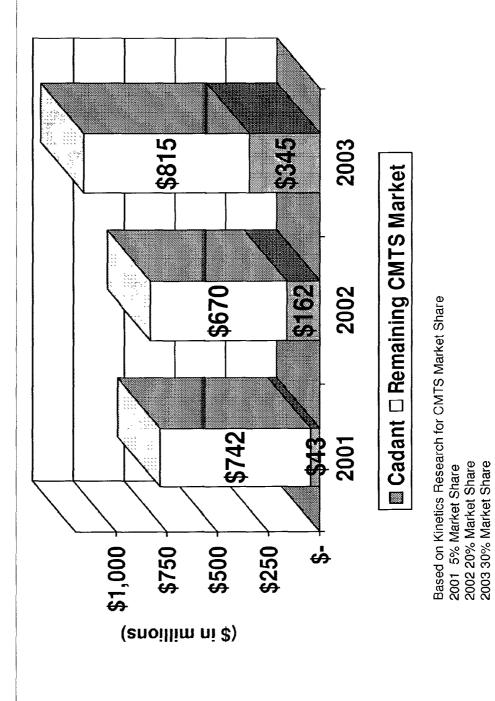


Projected Cadant Revenue



INNOVATIONS IN BROADBAND

Cadant Stand Alone





Summary



INNOVATIONS IN BROADBAND

- 85 highest caliber engineers recruited locally from Lucent, Motorola, 3Com, Tellabs
- Sales and marketing leadership with CMTS market experience
- True carrier grade product enables entry into the lucrative telephony market space
- On path to become the leading CMTS vendor throughout **Gen-2 lifecycle**
- Competitively positioned versus BAS and RiverDelta particularly before they get traction
 - Scalability attractive to all MSOs as their penetration increases Carrier grade product attractive to all MSOs as they eye
- Enhanced observability data enables new revenue opportunities **PacketCable**
- Longer term goal is Gen-3 market
- Cadant seeks business relationships that offer complimentary strengths





Corporate Leadership

Management Team

CEO	Venkata Majeti	630-799-1250	venkata@cadant.com
СТО	Tom Cloonan	630-799-1286	tom@cadant.com
Controller	Kevin Johnson	630-955-9840	kjohnson@cadant.com
VP – Engineering	Dan Hickey	630-799-1287	dan@cadant.com
VP – Marketing &	Gene Rosendale	630-955-9840	gene@cadant.com
Product Mgt			

Board of Directors

Venkata Majeti	CEO	630-799-1250	venkata@cadant.com
Eric Copeland	General Partner,	650-561-9079	esc@venrock.com
L	Venrock Assoc		
Mark Rochkind	Exeter Lane	973-538-5597	mrochkind@worldnet.att.net
	Assoc		
Jay Vohra	President & CEO,	312-345-1022	info@isourcing.com
	Isourcing		
Randy Lyon	Managing	312-541-3370	lyon_randolph@jpmorgan.com
	Director, J.P.		
	Morgan		

Technical Advisory Board

Stephen Dukes (Chairman)	Former VP, Engineering, MediaOne	303-858-3285	stephandukes@mindspring.com
David Bukovinsky	VP, Engineering, Wild Blue	720-554-7400	dbukovinsky@isky.net
Walter Ciciora	Former, CTO, Time Warner Cable	203-259-5183	wciciora@aol.com
Steve Craddock	VP, Engineering, Comcast	215-981-7838	scraddock@comcastpc.com
Nick Hamilton- Piercy	VP, Engineering, Rogers Cable	416-935-4828	npiercy@rci.rogers.com



Company Overview:

Cadant, founded in May 1998 and located in Lisle, Illinois is a leading developer of next-generation multiservice IP-based cable modem termination systems ("CMTS"). The Company currently has approximately 110 employees, 80 of whom are engineers. The Company has successfully developed an advanced nextgeneration cable networking solution called the C4 to provide more reliable service and enhanced offerings to cable subscribers. C4 provisions a higher degree of integration and performance with features such as flow control, scheduling, and policing, to allow simultaneous transmission of voice, data and video. The C4 is a high-density system that is capable of 128 upstream channels and 32 downstream channels per chassis. The product is capable of sending and receiving voice and data packets over cable in compliance with CableLabs' DOCSIS v1.1 standard. DOCSIS v1.1 optimizes cable bandwidth utilization and supports multiple classes of service as well as real-time service flows needed for applications such as voice and streaming video. The C4 is also compliant with PacketCable 1.0, which is necessary to qualify for carrier-class VoIP services. At present, the Company intends to begin trials with multiple system operators ("MSO") in the fourth quarter of 2000.

Industry Background:

The next-generation CMTS industry is poised for considerable growth as cable network operators continue to aggressively upgrade their hybrid fiber coaxial ("HFC") infrastructure to complete the two-way cable build-out. About 45% of the cable plant has already been upgraded to HFC. During 1999, there was \$340 million in revenue generated from CMTS shipments worldwide, representing 170% growth rate over the previous year. According to Dataquest, worldwide revenue for the CMTS equipment market is expected to grow to more than \$2.5 billion by the end of 2003. This significant industry growth is in response to several factors:

MSO migration to standards-based equipment:

- MSO migration toward standards-based equipment has accelerated as companies such as MediaOne and Cox Communications complete their overlay of DOCSIS-based systems to eliminate capacity constraints.
- In light of aggressive positions of many ILECs and LECs in utilizing DSL and fixed wireless based technologies, cable operators must implement DOCSIS based systems to capture and maintain market share for video and enhanced services.

Advanced service offerings:

- Previous generation proprietary CMTS systems lack many of the capabilities of the newer systems
 with respect to security, interoperability, bandwidth, downstream and upstream data rates, packet
 processing power and automated self-provisioning.
- MSOs are looking for better ways to compete against insurgents ranging from satellite TV to ISPs.

Growth in cable modem shipments:

- Cable modem shipments to PCs totaled approximately 3 million units in 1999 and are forecasted to grow to more 12.6 million by year-end 2004, according to Gartner Group.
- The number of total homes passed by cable TV systems in North America in 1999 was about 97 million, and homes passed by cable data services approached about 65 million.

Competitive Pricing:

· Significantly lower prices for standard-based cable modems.

Management And Employees:

The Company has approximately 110 employees, 80 of whom are engineers. The 80 engineers have an average of 18 years of experience in cable, telecom, gigabit ATM, and router technology from leading technology companies such as Lucent Technologies, Bell Labs, Westell Technologies, U.S. Robotics, Motorola and Cisco Systems, among others.

Innovation:

19 Patents pending for technology developments.

Sustained Rapid

Growth:

The Company is at the forefront of the DOCSIS-based CMTS industry, which is expected to reach nearly \$2.5 billion by 2003, according to Dataquest. The Company believes that its product offering is superior because it provisions a higher degree of integration and performance with features such as flow control, scheduling, and policing, to allow simultaneous transmission of voice, data and video. As a result, the Company believes that by 2003 it will capture 30% of the total CMTS market share. Additionally, the Company intends on to invest a substantial amount of time and resources to develop derivative products in fixed wireless and DSL.

DOCSIS 1.1 Certification:

The Company expects to be the first-to-market supplier of DOCSIS v1.1 compliant CMTS systems.

Product Capability:

Standard open interface and protocols allow for seamless integration and performance in compliance with DOCSIS 1.1 standards.

- DOCSIS v1.1: MSO migration toward standards-based equipment has accelerated as companies such as MediaOne and Cox Communications complete their overlay of DOCSIS-based systems to eliminate capacity constraints.
- Scalability: The C4 supports subscriber growth with the highest density and scalability offered in the industry with a standard rack carrying 3 chassis capable of 128 upstream and 32 downstream channels per chassis. The C4 is able to offer open access to over 4,000 ISP, ASP and Virtual Private Network operators.
- Quality of Service ("QoS"): Fully compliant with QoS as governed by DOCSIS 1.1 limiting issues such as latency, echo, jitter and lost packets. Uniquely designed to sustain any system component failure without interruption of service providing for true carrier-class availability with 99.999% uptime.
- Advanced Packet Processing: Enhanced capabilities in packet processing including flow-based classification and
 prioritization; flow-based policing; hard and soft-limiting flow control; [WRED] congestion control based on flow priority
 and flow activity; fine-grain congestion control technique containing over 70 tunable parameters; priority-based queuing;
 priority-based scheduling; extensive layer 2, 3, and 4 filtering; priority-marking gatekeeper; billing and performance
 monitoring counts; and traffic shaping for VoIP and streaming video flows.
- System Management: Powerful system management capabilities simplify installation, monitoring, and overall system administration.

Relationship with

MSOs:

The Company has primarily targeted, and is in various levels of discussion with, the top seven US MSOs, which cover 80% of the total homes passed by cable.

DOCSIS Standard:

Docsis v1.0 established universal ground rules for the transmission of packets across cable networks, ensuring that packets will be routed correctly. DOCSIS v1.0 has been enhanced in DOCSIS v1.1 with quality of service ("QoS") features that enable the prioritization of packet traffic and security features that are necessary for voice communication. This allows cable operators to give voice packets the right of way and allows other traffic to be sent with a best-efforts priority as determined by bandwidth availability.

Competitive Overview: CMTS products are offered by 3Com, Cabletron, Cisco, Com21, Motorola, Nortel Networks/Arris Interactive and Terayon. Broadband Access Systems, River Delta Networks and BigBand Networks are private companies that are also developing CMTS products. Cisco Systems, Cadant, Broadband Access Systems and River Delta Networks are developing products which are DOCSIS compliant. However, Cadant and River Delta Networks are the only companies developing products which are DOCSIS v1.1

The following profiles highlight the primary CMTS product vendors:

Nortel Networks/Arris Interactive

Arris is a joint venture between Nortel Networks and ANTEC Corp. The Company is built on the strength of its parent companies in the development of next-generation integrated broadband networks, coupled with strong relationships with both US and Canadian MSOs. The Companies CMTS product, the Cornerstone CMTS 1000 is in full compliance with DOCSIS v1.0 standard and has proven performance with more than 25 cable operators in 42 cities and 11 global markets. The Cornerstone provides two downstream and eight upstream channels.

BigBand Networks

BigBand Networks is a leading provider of a new class CMTS solution that enable service providers to deliver and manage differentiated and interactive services combining video, audio and data. BigBand Networks' patented NativeMedia™ technology architecture is based on the distribution and management of media in its original forms, which results in unprecedented quality, functionality, scalability and efficient use of bandwidth.

Broadband Access Systems ("BAS")

BAS has established itself as a leading developer and supplier of next-generation CMTS equipment. The company's revolutionary CMTS, called the Cuda 12000, is NEBS and DOCSIS v1.0 compliant, and is designed to support future upgrade requirements. The Cuda has been commercially available in limited quantities since the fall of 1999. The Cuda is differentiated by its distributed routing architecture that places a high-powered processor directly on each CMTS card capable of delivering up to 42 million packets per second on a fully loaded chassis. This feature allows the device to maintain wire-speed packet forwarding as service penetration and complexity grows. Time Warner and Adelphia have begun deploying the Cuda in their networks, while field trials are underway with numerous other operators worldwide. On September 20, 2000, ADC Telecommunications announced that were planning on acquiring BAS for \$2.25 billion in stock.

Cisco

Cisco Systems' CMTS product, the uBR 7246, was the first-to-market DOCSIS v1.0 system. As a result, the Company has captured almost 75% of all upstream and downstream CMTS port shipments and established credibility and long-term relationships with numerous MSOs. The Company's CMTS product supports Time Warner, AT&T, Media One, Cox and Comcast, among others. Although Cisco's early presence has allowed them to capture a majority of the market share, their current CMTS product trails numerous private companies, such as BAS, Cadant and River Delta, in overall performance.

River Delta Networks

River Delta's CMTS product, the BSR 64000, is [DOCSIS v1.0 compliant], and is designed to support future upgrade requirements. The BSR 64000 allows for per-flow policing and traffic shaping at wirespeed. A key differentiating feature of the BSR 64000 is that as traffic volumes grow, cable operators can deploy it at their distribution hubs rather than at a cable head end in order to get greater numbers of streams to customers. The BSR 64000 is currently in two beta trials with customer shipments due in the fourth quarter.