

Confidential Release

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90-467-TP-ATA

Date of Confidential Document:

SEPTEMBER 17, 1991

Today's Date:

July 28, 2009

~~CONFIDENTIAL~~
OCC 16

THE OHIO BELL TELEPHONE COMPANY
ADVANCED CUSTOM CALLING SERVICE

CALLER ID SERVICE

COST STUDY UPDATE - SEPTEMBER, 1991

The Advanced Custom Calling Service, Caller ID, is available to residence and business line customers.

Caller ID is an optional central office service which allows a customer to identify the telephone number from which a call to his telephone line is being made. The telephone number of the person making the call is displayed on a device attached to the Caller ID subscriber's telephone line. The customer must buy the display device in addition to the service.

If the display device or set has the capability of storing incoming numbers, customers can get the phone number from calls that came in while they were away from their telephones. The customer may have the option of turning off the display device to suspend the display of incoming calling numbers. The length of time in which the number appears is a function of the display device.

The Caller ID customer will receive the letter "o" or "u" for cases where the calling party's telephone number cannot be determined. An "o" means the originating call is out of the service area and "u" means the originating call number is unavailable for some reason.

Caller ID is a CLASS service. CLASS, which stands for Customer Local Area Signaling Service, consists of a set of new and enhanced features which are built around the capability of sending the calling telephone number throughout the network, allowing the called party to program instructions into the network to cause the call to be treated differently based on who is calling. The services work on calls among Stored Program Controlled switching systems that are interconnected by a local area signaling network having the capabilities of common channel signaling.

If the calling party and the called party are served by different central office switches, each switch has to be equipped with SS7. The called party's switch must be equipped to provide the Caller ID service. The switch serving the calling party automatically generates data identifying the calling party's number. These data are transmitted to the called party's central office.

This service has two cost features: a cost per line for up to 300 numbers delivered per month and a cost per call for each additional number delivered over the 300 number minimum. The first feature has four cost components: feature resource investment, automatic message accounting investment, one-time upfront expense and right to use fees expense. The second feature has three cost components: feature resource investment, automatic message accounting investment, and one-time upfront expense.

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This cost study used the Switching Cost Information System (S.C.I.S.) to develop the investment cost for each type of electronic switching technology and then applied monthly carrying charge factors to determine the monthly cost per line. Weighting factors were developed based on the number of lines served by each type of switch technology to determine one composite cost for all technologies.

The DMS Switch was used as a surrogate for the EWSD (Siemens) Switch. This recommendation from the Network Design Engineer was used since the (S.C.I.S.) Switching Cost Information System has not provided the algorithms for the Siemens Switch.

The AMA (Automatic Message Accounting) investment per record was also developed using S.C.I.S. One AMA record will be recorded each day for billing. A psuedo switched access feature was run with default parameter inputs in two of the technologies. Bellcore provided the investment cost in the other technology.

The one-time upfront expense for each feature was levelized by the total present worth of customer lines to establish a recurring annual cost. Division by 12 produced a monthly cost which was added to the other monthly costs to arrive at a single monthly cost per feature.

The Common Channel Signaling Cost Information System (C.C.S.C.I.S.) which is used to determine the cost of the Signaling System 7 is not required in this study. There are no incremental costs for Caller ID.

To determine the incremental cost of the "each call over 300 calls" feature, the feature and AMA record investments for 300 calls were added together and divided by 300 calls. Application of the monthly carrying charge factors and weighting factors produced the monthly feature and AMA cost per call. The monthly upfront expense for this feature was obtained in the same manner as the "300 calls per month or less" feature, but was included in the cost for that feature.

This update is a modification to include Mass Media Advertising and the Accommodation Plan. This cost study is based on and uses information from the original cost study. Sheets that were not changed appear in the original study.

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COST SUMMARY - CALLER ID UPDATE
UPDATE SEPTEMBER, 1991

CS-1

VOLUME SENSITIVE COST

#	DESCRIPTION	SOURCE	AMOUNT
MONTHLY COST PER LINE FOR 300 CALLS OR LESS			
1	MONTHLY FEATURE COST PER LINE	CD-1;L21	\$0.498
2	MONTHLY AMA RECORD COST	CD-1;L34	\$0.220
3	MONTHLY RIGHT TO USE EXPENSE	CD-5;L4	\$0.206
4	TOTAL MONTHLY COST PER LINE FOR 300 CALLS OR LESS	L1+L2+L3	\$0.924
MONTHLY COST PER CALL FOR EACH CALL OVER 300 CALLS			
5	MONTHLY FEATURE & AMA COST PER CALL	CD-6;L33	\$0.002

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COST SUMMARY - CALLER ID UPDATE
 UPDATE SEPTEMBER, 1991

CS-2

ACCOMMODATION PLAN EXPENSE
 PRESENT VALUE OF FIRST 5 YEARS

#	DESCRIPTION	SOURCE	AMOUNT
1	ACCOMMODATION PLAN - CALLING CARD CALLS WAIVE RECURRING OPERATOR HANDLED SURCHARGE	CD-9;L12	\$70,927.93
2	ACCOMMODATION PLAN - EXPENSE WAIVE NON-RECURRING CHARGE OUTGOING LINE	CD-10;L17	\$1,082.25
3	ACCOMMODATION PLAN - EXPENSE WAIVE RECURRING CHARGE OUTGOING LINE	CD-11;L13	\$32,249.24
4	ACCOMMODATION PLAN - EXPENSE WAIVE RECURRING CHARGE THREE-WAY CALLING	CD-13;L8	\$49.33
5	ACCOMMODATION PLAN - EXPENSE WAIVE RECURRING CHARGE MULTI-RING SERVICE	CD-14;L8	\$2,269.16
6	ACCOMMODATION PLAN - EXPENSE WAIVE RECURRING CHARGE ANNOUNCEMENTS	CD-14;L24	\$46,969.20
7	ACCOMMODATION PLAN - EXPENSE WAIVE NON-RECURRING CHARGE PRINTING	CD-15;L11	\$359.93
8	ACCOMMODATION PLAN - EXPENSE TOTAL RECURRING CHARGE WAIVED	L1+L3+L4+L5 +L6	\$152,466.86
9	ACCOMMODATION PLAN - EXPENSE TOTAL NON-RECURRING CHARGE WAIVED	L2+L7	\$1,442.18
10	ACCOMMODATION PLAN - EXPENSE 0- NON-COIN SENT PAID RECURRING COST	CD-12;L21	\$567,218.03
11	ACCOMMODATION PLAN - TOTAL EXPENSE TOTAL RECURRING AND NON-RECURRING	L8+L9+L10	\$721,127.07

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COST SUMMARY - CALLER ID UPDATE
UPDATE SEPTEMBER, 1991

CS-3

DIRECT FIXED COST SUMMARY
PRESENT VALUE FIRST 5 YEARS

#	DESCRIPTION	SOURCE	AMOUNT
1	ACCOMMODATION PLAN - TOTAL EXPENSE	CS-2;L11	\$721,127.07
2	MASS MEDIA ADVERTISING EXPENSE	CD-12;L16	\$3,799,147.00
3	ONE-TIME FIXED EXPENSES	CD-3;L65	\$240,852.20
4	DIRECT FIXED COST TOTAL	L1+L2+L3	\$4,761,126.27

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COST SUMMARY - CALLER ID UPDATE
UPDATE SEPTEMBER, 1991

CS-4

TOTAL INCREMENTAL COST SUMMARY

#	DESCRIPTION	SOURCE	AMOUNT
1	CUSTOMER REVENUE - YEAR 1	MARKETING	\$1,605,984
2	CUSTOMER REVENUE - YEAR 2	MARKETING	\$2,717,412
3	CUSTOMER REVENUE - YEAR 3	MARKETING	\$3,581,948
4	CUSTOMER REVENUE - YEAR 4	MARKETING	\$4,178,382
5	CUSTOMER REVENUE - YEAR 5	MARKETING	\$4,785,570
6	(P/F, 14.09, 1)	SD-6.1:L1	0.876501
7	(P/F, 14.09, 2)	SD-6.1:L2	0.768254
8	(P/F, 14.09, 3)	SD-6.1:L3	0.673375
9	(P/F, 14.09, 4)	SD-6.1:L4	0.590214
10	(P/F, 14.09, 5)	SD-6.1:L5	0.517323
11	PRESENT VALUE OF YEAR 1 REVENUE	L1*L6	\$1,407,647
12	PRESENT VALUE OF YEAR 2 REVENUE	L2*L7	\$2,087,663
13	PRESENT VALUE OF YEAR 3 REVENUE	L3*L8	\$2,411,994
14	PRESENT VALUE OF YEAR 4 REVENUE	L4*L9	\$2,466,140
15	PRESENT VALUE OF YEAR 5 REVENUE	L5*L10	\$2,475,685
16	PRESENT VALUE OF FIRST 5 YEARS REVENUE	L11 THRU L15	\$10,849,129
17	MONTHLY MARGINAL COST PER LINE	CS-1:L4	\$0.924
18	PRESENT VALUE OF FIRST 5 YRS LINES	CD-4:L16	149061
19	PRESENT VALUE OF FIRST 5 YRS LINE VOLUME SENSITIVE	12*L17*L18	\$1,652,788
20	MONTHLY MARGINAL COST USAGE	CS-1:L5	\$0.002
21	PRESENT VALUE OF FIRST 5 YRS USAGE	CD-8:L16	117863
22	PRESENT VALUE OF FIRST 5 YEARS USAGE VOLUME SENSITIVE	12*L20*L21	\$2,829
23	PRESENT VALUE OF FIRST 5 YEARS VOLUME SENSITIVE	L19+L22	\$1,655,617
24	TOTAL INCREMENTAL COST VOLUME SENSITIVE AND FIXED COST	L23+CS-3:L4	\$6,416,743
25	PRESENT VALUE OF FIRST 5 YEARS DIRECT FIXED AND VOLUME SENSITIVE PRODUCT CONTRIBUTION	L16-L24	\$4,432,386

CALLER ID - LEVELIZED FORECAST
FOR 300 CALLS OR LESS

CD-4

Line	Description	Source	Value
1	CUSTOMER LINE FORECAST - YEAR 1	MARKETING	22069
2	(P/F,14.09,1)	SD-6.1;L1	0.876501
3	PRESENT VALUE YR 1 CUSTOMER LINES	L1*L2	19344
4	CUSTOMER LINE FORECAST - YEAR 2	MARKETING	37342
5	(P/F,14.09,2)	SD-6.1;L2	0.768254
6	PRESENT VALUE YR 2 CUSTOMER LINES	L4*L5	28688
7	CUSTOMER LINE FORECAST - YEAR 3	MARKETING	49217
8	(P/F,14.09,3)	SD-6.1;L3	0.673375
9	PRESENT VALUE YR 3 CUSTOMER LINES	L7*L8	33141
10	CUSTOMER LINE FORECAST - YEAR 4	MARKETING	57403
11	(P/F,14.09,4)	SD-6.1;L4	0.590214
12	PRESENT VALUE YR 4 CUSTOMER LINES	L10*L11	33880
13	CUSTOMER LINE FORECAST - YEAR 5	MARKETING	65738
14	(P/F,14.09,5)	SD-6.1;L5	0.517323
15	PRESENT VALUE YR 5 CUSTOMER LINES	L10*L11	34008
16	PRESENT VALUE OF FIRST 5 YRS LINES	L3+L6+L9+L12+L15	149061

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CALLER ID - LEVELIZED FORECAST
FOR EACH CALL OVER 300 CALLS

CD-8

Line	Description	Source	Value
1	CUSTOMER USAGE FORECAST - YEAR 1	MARKETING	16388
2	(P/F,14.09,1)	SD-6.1;L1	0.876501
3	PRESENT VALUE YR 1 CUSTOMER USAGE	L1*L2	14364
4	CUSTOMER USAGE FORECAST - YEAR 2	MARKETING	27721
5	(P/F,14.09,2)	SD-6.1;L2	0.768254
6	PRESENT VALUE YR 2 CUSTOMER USAGE	L4*L5	21297
7	CUSTOMER USAGE FORECAST - YEAR 3	MARKETING	37947
8	(P/F,14.09,3)	SD-6.1;L3	0.673375
9	PRESENT VALUE YR 3 CUSTOMER USAGE	L7*L8	25553
10	CUSTOMER USAGE FORECAST - YEAR 4	MARKETING	46889
11	(P/F,14.09,4)	SD-6.1;L4	0.590214
12	PRESENT VALUE YR 4 CUSTOMER USAGE	L10*L11	27675
13	CUSTOMER USAGE FORECAST - YEAR 5	MARKETING	56007
14	(P/F,14.09,5)	SD-6.1;L5	0.517323
15	PRESENT VALUE YR 5 CUSTOMER USAGE	L10*L11	28974
16	PRESENT VALUE OF FIRST 5 YRS USAGE	L3+L6+L9+L12+L15	117863

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ACCOMMODATION PLAN - CALLER ID
 FOR THE COUNTIES OF CUYAHOGA, FRANKLIN AND LAKE
 CALLING CARDS ISSUED

LINE	DESCRIPTION
1	126 Calling Cards issued to Police Departments Source Document SD-7.0;L1
2	30 Calling Cards issued to Domestic Violence Agencies Source Document SD-7.0;L2
3	156 Calling Cards issued = sum of Line 1 + Line 2
4	Waive Surchage - Source Document SD-7.0
5	\$0.04158 = Cost of 0+ Direct Dialed Call - Source Document SD-7.2;L10
6	266 Average Messages per Line - Message Business Rotary Source Document - Local Exchange Service Report SD-7.1;L1E

Automatic Calling Card Service Cost

7	Cost per call ACCS	Line 5	0.04158
8	Monthly Calls per line	Line 6	266.00
9	Total Calling Cards	Line 3	156.00
10	Monthly Cost	L7*L8*L9	1725.404
11	(P/A,14.09,5)	SD-6.1;L5	3.425668
12	PRESENET VALUE FIRST 5 YRS 12*L10*L11 CALLING CARD CALLS COST		70927.93

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ACCOMMODATION PLAN - CALLER ID

FOR THE COUNTIES OF CUYAHOGA, FRANKLIN AND LAKE

WAIVE NON-RECURRING, OUTGOING ONLY SERVICE LINE

LINE	DESCRIPTION
1	30 Domestic Violence Agency Locations Source Document SD-7.0;L2
2	15 Shelters, 2 locations each for a total of 30 Locations Source Document SD-7.0
3	30 Total Agencies requiring outgoing only line
4	Waive Surcharge - Source Document SD-7.0
5	\$62.85 = Service & Equipment Rate establishing new service Source Document - Tariff, Section 3 Simple Non-Residence
6	\$9.30 = Service & Equipment Rate change in service Source Document - Tariff, Section 3,(i) Simple Non-Residence
7	50% of the agencies would request a new line for outgoing only service, 50% of the agencies would request a change to existing line Source - Cost Assumption
8	266 Average Messages per Line - Message Business Rotary Source Document Local Exchange Service Report SD-7.1;L1E

Outgoing Line Service 50% - New Service

9	Rate For New Install	Line 5	62.85
10	Total Lines	Line 3	30.00
11	Total Revenue	L9*L10	1885.500
12	50% Revenue New Service	L11*.50	942.750

Outgoing Line Service 50% - Change

13	Rate For Change Service	Line 6	9.30
14	Total Lines	Line 3	30.00
15	Total Revenue	L13*L14	279.000
16	50% Revenue Change Service	L15*.50	139.500

17	Total Non-Recurring Charge L12+L16	1082.250
	Outgoing Line Service Revenue	

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ACCOMMODATION PLAN - CALLER ID
 FOR THE COUNTIES OF CUYAHOGA, FRANKLIN AND LAKE
 WAIVE RECURRING, OUTGOING ONLY SERVICE LINE

LINE	DESCRIPTION
1	30 Domestic Violence Agency Locations Source Document SD-7.0;L2
2	15 Shelters, 2 locations each for a total of 30 Locations Source Document SD-7.0
3	30 Total Agencies requiring outgoing only line
4	Waive Recurring Charge - Source Document SD-7.0
5	\$20.00 = Access Line Monthly Rate Source Document - Tariff, Section 5 Non-Residence Service
6	\$6.15 = Usage Package Monthly Rate Source Document - Tariff, Section 5 Non-Residence Service

Outgoing Line Service Waive Recurring Charge

7	Rate For Access Line	Line 5	20.00
8	Rate For Usage Package	Line 6	6.15
9	Total Monthly Rate	L7+L8	26.15
10	Total Lines	Line 3	30.00
11	Monthly Revenue	L9*L10	784.50
12	(P/A, 14.09, 5)	SD-6.1;L5	3.425668
13	PRESENT VALUE FIRST 5 YRS RECURRING CHARGE REVENUE	12*L11*L12	32249.24

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Line	Description	Source	Value
1	Mass Media Advertising Year 1	Marketing	\$750,000
2	Mass Media Advertising Year 2	Marketing	\$1,200,000
3	Mass Media Advertising Year 3	Marketing	\$1,224,000
4	Mass Media Advertising Year 4	Marketing	\$1,248,480
5	Mass Media Advertising Year 5	Marketing	\$1,273,450
6	(P/F, 14.09, 1)	SD-6.1:L1	0.876501
7	(P/F, 14.09, 2)	SD-6.1:L2	0.768254
8	(P/F, 14.09, 3)	SD-6.1:L3	0.673375
9	(P/F, 14.09, 4)	SD-6.1:L4	0.590214
10	(P/F, 14.09, 5)	SD-6.1:L5	0.517323
11	Present Value of Year 1 Advertising	L1*L6	\$657,376
12	Present Value of Year 2 Advertising	L2*L7	\$921,905
13	Present Value of Year 3 Advertising	L3*L8	\$824,211
14	Present Value of Year 4 Advertising	L4*9	\$736,870
15	Present Value of Year 5 Advertising	L5*L10	\$658,785
16	Present Value of First 5 Years Advertising	L11 Thru L15	\$3,799,147

ACCOMMODATION PLAN

0- NON-COIN (NC) LOCAL SENT PAID EXPENSE

Line	Description	Source	Value
17	0- Non-Coin Sent Paid Cost Per Call	SD-7.2:L12	\$0.27082
18	Number of Annual Local Calls	SD-7.2:L13	611,398
19	Cost of 0- Non-Coin Sent Paid Calls	L17*L18	\$165,578.81
20	(P/A, 14.09, 5)	SD-6.1:L5	3.425668
21	Present Value of First 5 Years 0- Non-Coin Local Sent Paid Cost	L19*L20	\$567,218.03

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ACCOMMODATION PLAN - CALLER ID
 FOR THE COUNTIES OF CUYAHOGA, FRANKLIN AND LAKE
 WAIVE THREE-WAY CALLING

LINE	DESCRIPTION		
1	30 Shelter locations Source Document SD-7.0;L2		
2	Agencies Criteria Source Document SD-7.0A;L3b and SD-7.0C;L6bii		
3	\$0.04 Monthly Cost per Line, Three-Way Calling Source Document SD-7.3;L1		
4	Number of Lines	Line 1	30
5	Monthly Cost per Line	Line 3	0.04
6	Monthly Cost	L4*L5	1.20
7	(P/A,14.09,5)	SD-6.1;L5	3.425668
8	PRESENT VALUE FIRST 5 YRS THREE-WAY CALLING COST	12*L6*L7	49.33

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ACCOMMODATION PLAN - CALLER ID

FOR THE COUNTIES OF CUYAHOGA, FRANKLIN AND LAKE

WAIVE MULTI-RING SERVICE

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LINE	DESCRIPTION		
1	30 Shelter locations Source Document SD-7.0iL2		
2	Agencies Criteria Source Document SD-7.0AiL3b and SD-7.0CiL6biii		
3	\$1.84 Monthly Cost per Line, Multi-Ring (Formerly CIS) Source Document SD-7.4iL1 (Call Identification Services)		
4	Number of Lines	Line 1	30
5	Monthly Cost per Line	Line 3	1.84
6	Monthly Cost	L4*L5	55.20
7	(P/A, 14.09, 5)	SD-6.1iL5	3.425668
8	PRESENT VALUE OF FIRST 5 YRS MULTI-RING RECURRING COST	12*L6*L7	2269.16

CUSTOM ANNOUNCEMENT FOR EACH SHELTER LOCATION

9	The shelters phone would not ring and the person making the call back would get a recording. Source Document SD-7.0Cvi.		
10	SESS Announcement Investment	SD-1.8iL6	1361.595
11	DMS-CORE Announcement Investment	SD-1.9iL6	707.178
12	Line Report, SESS Total Lines	SD-3.7iL50	885900
13	Line Report, DMS-CORE Total Lines	SD-3.7iL51	452506
14	Total SESS & DMS-CORE Lines	L12+L13	1338406
15	SESS Weight Factor	L12/L14	0.6619
16	DMS-CORE Weight Factor	L13/L14	0.3381
17	Monthly TAC Factor SESS	SD-2.1iL2	0.032879
18	Monthly TAC Factor DMS-CORE	SD-2.2iL2	0.035358
19	Weighted Monthly Cost SESS	L10*L15*L17	29.632
20	Weighted Monthly Cost DMS-CORE	L11*L16*L18	8.454
21	Monthly Announcement Cost/Location	L19+L20	38.086
22	Number of Announcement Locations	Line 1	30
23	Total Monthly Announcement Cost	L21*L22	1142.58
24	PRESENT VALUE OF FIRST 5 YRS ANNOUNCEMENT RECURRING COST	12*L7*L23	46969.20

The Ohio Bell Telephone Company

Calculation of Costs to Produce Caller-ID Disclaimer Flyers

Description	Source	Amount
1. Time (in hours) to set type, proof read and produce an original copy.	S.M.E. (est.)	2.00
2. JFC 1650 - Drafting & Art 1991 Wage Rate	Serv. Costs	\$21.90
3. Wage cost (Drafting & Art)	ln.1 x ln.2	\$43.60
4. Time (in hours) to run the copy machine to produce 5,000 copies.	S.M.E. (est.)	0.75
5. JFC 1654 - Reproduction 1991 Wage Rate	Serv. Costs	\$19.10
6. Wage cost (Reproduction)	ln.4 x ln.5	\$14.33
7. Material cost for 5,000 sheets of 70 Pound white paper.	S.M.E. (est.)	\$77.00
8. Machine operating cost per copy. includes: rental, maintenance, toner, developer, etc.	Per Rental Agreement	\$0.045
9. Number of copies to be produced.	Serv. Costs	5,000
10. Machine cost (Reproduction)	ln.8 x ln.9	\$225.00
11. Incremental Cost to Produce Caller-ID Disclaimer Flyers	Sum of lines 3+6+7+10	\$359.93

S.M.E. = Subject Matter Expert
est. = estimate

OHIO BELL TELEPHONE COMPANY
SWITCHING COST INFORMATION SYSTEM
ESS Business / Residence Custom Services (BRCS)

Study: 39EF15E

December 14, 198

FEATURE: 81 - Special Intercept Announcements
AUTOMATIC CALLBACK

AT&T No.
02-01-1200

FEATURE RESOURCE COST -	E, F & I Investment per Unique Ann	-----
A. Getting Started Cost:		Not applicab
B. CCS Cost:		Not applicab
1. Line CCS (Orig., Term.)	Not applicable	
2. Trunk CCS (Out., Inc.)	Not applicable	
C. Call Cost:		Not applicab
1. Terminating	Not applicable	
2. EPHC (SW Module)	Not applicable	
D. Minimum Line Cost:		Not applicab
E. Feature Related Hardware:		1361.5945
1.	Not applicable	
2. Cost Per Unique 24 Second Announcement Memory Cost:	1361.59450	Not applicab
G. TOTAL RESOURCE COST:		----- 1361.5945

The SCIS output cost is for one Announcement only.

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OHIO BELL TELEPHONE COMPANY
 SWITCHING COST INFORMATION SYSTEM
 OMS-CORE OMS BASIC MDC

SD-1.9

January 12, 1990
 COMMON COSTS/MDC GROUP

Study: 89 CDF
 E, F & I Investmer

 0.0000

A. Getting Started Cost			
1. Intercept	0.00000		
2. Listed Directory Number	0.00000		
B. CCS Cost			0.000
1. Listed Directory Number	0.00000		
C. Call Cost			Not Applicat
D. Minimum Line Cost			Not Applicat
E. Feature Related Hardware Cost			707.17
1. 3 Port Conference Circuit CCS	0.00000		
2. Announcement Channel	702.74740		
3. Announcement Channel CCS	4.43011		
F. Memory Cost			0.000
1. Program Store	0.00000		
2. Data Store	0.00000		
3. Data Fill	0.00000		

G. TOTAL COMMON COSTS/MDC GROUP

 707.177

AUTOMATIC CALLBACK
 INTERCEPT

The SCIS output cost is for one Announcement only.

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ANNUAL COMPOUND INTEREST TABLES AT 14.09 PERCENT

YEAR	P/F	F/P	A/F	F/A	P/A	A/P
L1 1	0.876501	1.140900	1.000000	1.000000	0.876501	1.140900
L2 2	0.768254	1.301653	0.467093	2.140900	1.644755	0.607993
L3 3	0.673375	1.485056	0.290482	3.442553	2.318130	0.431382
L4 4	0.590214	1.694300	0.202938	4.927609	2.908345	0.343838
L5 5	0.517323	1.933027	0.151014	6.621909	3.425668	0.291914
6	0.453434	2.205390	0.116892	8.554935	3.879103	0.257792
7	0.397436	2.516130	0.092934	10.760326	4.276538	0.233834
8	0.348353	2.870653	0.075321	13.276456	4.624891	0.216221
9	0.305332	3.275123	0.061931	16.147108	4.930223	0.202831
10	0.267623	3.736593	0.051487	19.422236	5.197846	0.192387
11	0.234572	4.263079	0.043180	23.158829	5.432418	0.184080
12	0.205603	4.863747	0.036467	27.421908	5.638021	0.177367
13	0.180211	5.549049	0.030974	32.285655	5.818232	0.171874
14	0.157955	6.330910	0.026431	37.834704	5.976187	0.167331
15	0.138448	7.222935	0.022642	44.165613	6.114635	0.163542

Reference: Green Book, Appendix A - Page 421

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MEMORANDUM

August 30, 1991

To: Manager, Cost Methods
 From: District Manager, Planning Community Relations
 Re: Caller ID Accommodation Plan

This memorandum is to confirm the substance of our conversation on August 23, 1991 regarding the Accommodation Plan for Caller ID.

Calling cards will be issued to police departments and state highway patrol posts in Lake, Cuyahoga and Franklin counties as well as approximately 15 domestic violence shelters. We estimated that each police department could use one calling card and that each shelter could use two cards. (Each shelter has 2 locations; a total of 30 locations.)

Line 1 126 police departments (one card)
 Line 2 15 shelters (two cards) = 30 Cards each location
 Line 3 for a total of 156 calling cards

When using an Ohio Bell calling card to place a call, the caller dials 0+ the telephone number and inputs the credit card number following the tone (or gives the number to the operator). An "O" or "Out of Area" will appear on the Caller ID display device. The surcharge for operator handled calls is waived for these organizations in the Accommodation Plan.

It is anticipated that the organizations identified above would also be provisioned with a single outgoing only service line. The non-recurring service and equipment charge to install a new line or change an existing class of service is waived in the Accommodation Plan.*

Outgoing only service does not permit incoming telephone calls and is also afforded non-published treatment. Calls made using this type of line will deliver the telephone number to the Caller ID display device.

If I've missed something, please give me a call.

*The monthly recurring charge will also be waived.

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Ohio Bell Proposed Accommodation Plan**1. POSITION ON BLOCKING**

The Ohio Bell Telephone Company opposes blocking because it would substantially undermine the benefits of Caller ID service. Blocking is unnecessary to accommodate those who have a special need to originate calls without disclosure of their telephone numbers.

2. ESTABLISHMENT OF CRITERIA FOR SPECIAL CASES REQUIRING NON-DISCLOSURE OF NUMBERS

The Public Utilities Commission of Ohio should establish the criteria to identify those who have special needs to originate calls without displaying their telephone numbers.

3. THE CRITERIA FOR SPECIAL CASES REQUIRING NON-DISCLOSURE OF NUMBERS

There should be two criteria:

a. Members of municipal, county, state or federal law enforcement agencies who are identified by the agency head as being undercover officers in risk of physical harm or of having their operations compromised if their telephone number is disclosed when they originate a call
or

b. Organizations dealing with battered spouses, rape/sexual assault and child abuse, which are part of government agencies or operated on a not-for-profit basis ("intervention centers").

4. ADMINISTRATION OF THE CERTIFICATION PROCESS FOR SPECIAL CASES

Ohio Bell will administer the certification criteria adopted by the Commission as long as a reasonable procedure is approved. For example, the Company is willing to produce and process a certification form to document an applicant's ability to satisfy the criteria described in item 3 above. If an applicant wishes to appeal the Company's decision with regard to certification, this form could be forwarded to the Commission for use in its review and appeal process.

5. ACCOMMODATIONS FOR SPECIAL CASES REQUIRING NON-DISCLOSURE OF NUMBERS

a. Several alternatives are available for members of law enforcement agencies:

- i. Place the call using an Ohio Bell calling card. This has the advantage of delivering an "0" on the Caller ID display unit. Calling card calls can be made from any phone by dialing direct "0" plus the number or by dialing only "0".
- ii. Place the call using a public telephone. The advantage here is that the number of the pay station is displayed, not the caller's own telephone number.
- iii. Place the call using a cellular telephone. The advantage here is that the call will deliver an "0" on the Caller ID display screen.

Other alternatives exist today and yet other alternatives for law enforcement will evolve over time, including some which would be rendered ineffective if made public. These will have to be evaluated on a case-by-case basis.

b. There are several alternatives available to the intervention centers:

- i. The calling card option discussed at point 5.a.i. above.
- ii. Place the call using a line, which is not published or listed, for outbound calls only. The advantage here is that no call back is possible and the location cannot be determined through Ohio Bell/Ameritech directories. An appropriate recording could be placed on the line or the ringing feature could be disconnected.
- iii. For local calling, dial "0" and have the operator place the call. The advantage here is that an "0" will be shown on the Caller ID display unit and this calling option is accessible from any telephone.

- iv. Using a public telephone as discussed at point 5.a.ii.
- v. Subscription by the center to Three-Way Calling would allow abused spouses to call home, through the center, from a third location without disclosing the number of the station they are calling from. The center's number could be non-published or listed without an address.
- vi. Subscription by the center to Multi-Ring Service. If the called party uses the number displayed on the Caller ID device (having received a call from the center) for a call back and if the center subscribed to the Multi-Ring service, the center would get a distinctive ring. If the center so desired arrangements could be made with the service so that the center's phone would not ring and the person making the call back would get a recording.

Other alternatives exist today and yet other alternatives for intervention centers will evolve over time. These alternatives can be designed to meet the unique needs of the individual intervention centers.

6. UPON REQUEST, WAIVER OF THE APPLICABLE CHARGES FOR SPECIAL CASES WHEN CALLER ID IS PROVIDED WITHOUT BLOCKING

- a. For those meeting the law enforcement criteria listed in item 3.a. above, the Company will waive the surcharge associated with local calls on the Company's calling cards.
- b. For those agencies or organizations meeting the intervention center criteria listed in item 3.b. above, the Company will waive both nonrecurring and monthly recurring charges for the following:
 - i. Outbound Only Lines. For those agencies or organizations with up to three regular IMB lines, the Company will provide one outbound only line. For those agencies or organizations with more than three regular IMB lines, the Company will provide outbound only lines on a 3-to-1 ratio.
 - ii. Three-Way Calling. Available on one line per location.
 - iii. Multi-Ring Service. One per location.
 - iv. Calling Cards. The Company will also waive the surcharges associated with local calls on the Company's calling cards for those employees or volunteers working for centers who are identified by the Centers' chief administrator as persons who make telephone calls for the center from home.

c. The accommodations described in items 6.a and 6.b exclude regular usage charges which are incurred notwithstanding Caller ID.

7. **PROVISIONS FOR HOT LINES AND TIPSTER LINES WHICH PEOPLE MAY WANT TO CALL ANONYMOUSLY**

If there is interest among the providers of hot line services, Ohio Bell will develop a phrase for use in the Customer Guide pages of the telephone directory that will indicate those agencies or organizations that wish to publicly certify that they do not subscribe to Caller ID. The Company also will publicize that such information is available in the Customer Guide pages.

LOCAL AVERAGES AND VARIANCES 08/15/91 1.41 REPORT FOR JULY , 1991 CALLS
Local Exchange Service Report

LATA - ALL
NUMBER OF LINES SAMPLED - 8,799
CLASS OF SERVICE - MESSAGE BUSINESS ROTARY

	A		B		C		D		E		F	
	WITHIN WIRE CENTER		OUTSIDE WIRE CENTER		OUTSIDE WIRE CENTER		COMBINED		COMBINED		COMBINED	
	AVERAGE	VARIANCE	AVERAGE	VARIANCE	AVERAGE	VARIANCE	AVERAGE	VARIANCE	AVERAGE	VARIANCE	AVERAGE	VARIANCE
MESSAGES/NUMBER	104.26	53,935.60	161.75	64,989.96	266.01	148,931.90	2.37	36.21	632.59	814,215.83	4.45	21.85
MINUTES/MESSAGE	2.02	71.69	2.60	13.20	2.37	36.21	2.37	36.21	2.37	36.21	2.37	36.21
MINUTES/NUMBER	210.94	259,958.56	421.65	384,874.55	632.59	814,215.83	632.59	814,215.83	632.59	814,215.83	632.59	814,215.83
FILES/MESSAGE	0.00	0.00	7.31	14.94	4.45	21.85	4.45	21.85	4.45	21.85	4.45	21.85

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L1	<u>O+ Calling Card - NC</u>	
L2	OACIS FC & VSC Total Cost per Call	\$.14024
L3	Billed Number Screening	\$.04
L4	SS7	<u>\$.00083</u>
L5	Total Cost per Call	\$.18107
L6	<u>ACCS - Calling Card</u>	
L7	OACIS FC & VSC Total Cost per Call	\$.00158
L8	Billed Number Screening	\$.04
L9	SS7 (included in L7).	--
L10	Total Cost per Call	<u>\$.04158</u>
L11	<u>O- Non-Coin (NC) Local Sent Paid</u>	
L12	OACIS Total Cost per Call	<u>\$.27082</u>
L13	Number of Annual Local Calls	<u>611398</u>

OACIS = Operator Analysis Cost Information System
 FC = Fixed Cost
 VSC = Volume Sensitive Cost
 ACCS = Automated Calling Card Service
 LIDB = Line Identification Data Base

Note: Automatic Calling Card Service queries the Line Identification Data Base

Source: Operator Services Operator Analysis Cost Information System
 Volume of Calls from Operator Services System Tracking Report

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 to be maintained in accordance with the
 person with the proper authorization.

COST SUMMARY

CS-1

#	DESCRIPTION	SOURCE	VALUE
1	THREE-WAY CALLING MONTHLY COST PER LINE	CD-1; L26	\$0.04

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CALL IDENTIFICATION SERVICES

TAB III - COST SUMMARY

LINE	A COST ITEM	B VALUE	C SOURCE
1	CIS Monthly Cost	(\$1.84)	CS A.2, L9B

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P.U.C.O. No. 1
EXCHANGE AND NETWORK SERVICES TARIFF

SERVICE CHARGES

2. DUAL ELEMENT CHARGES (Cont'd)

2.3 Service and Equipment Charge

A. Application of S&E Charges to Establish Service

Except where otherwise specified in this paragraph 2.3, the same S&E charges apply to residence, non-residence and semi-public service.

1. Exchange Access Lines

The following S&E charges apply, per line, for establishing main station service

	<u>Complex</u>		<u>Simple</u>		
	<u>Residence</u>	<u>Non-Residence</u>	<u>Residence</u>	<u>Non-Residence</u>	
a. Local exchange service.....	\$ 66.90	\$ 49.35	\$ 36.50	\$ 62.85	
b. FCO service.....	356.50	380.70	-	-	
c. FX service and FXE service..	431.45	455.70	-	-	
d. Semi-public service, one-way or two-way.....	-	-	-	124.60	(T) (T)
#The S&E charge includes the line and main station telephone.					
e. Centrex station lines and terminals, Exhibition Hall system lines, Airport Switching system lines, per locations, per occasion.....	61.15	61.15	-	-	
f. Trunk line to PBX Equipment..	66.90	49.35	-	-	

2. Off-property Extension and Station Lines, per line per location

a. Extension service location					
(1) In same CO area as main station location.....	129.20	129.20	-	-	
(2) In different CO area from main station location.....	234.20	234.20	-	-	
b. Intercom system station line..	87.70	87.70	-	-	
c. PBX station line or PBX extension station line					
(1) Terminating in same CO area as PBX system.....	378.40	378.40	-	-	
(2) Terminating in different CO area from PBX system.....	445.30	445.30	-	-	

Issued: September 16, 1985

Effective: September 20, 1985

In accordance with Order No. 85-597-TP-ATA, issued by The Public Utilities Commission of Ohio, September 10, 1985.

By E. F. Bell, President, Cleveland, Ohio

SERVICE CHARGES

2. DUAL ELEMENT CHARGES (Cont'd)

2.1 Definitions of Terms Used in this Section (Cont'd)

Network Wiring

Network wiring work includes travel, preparation, wiring on the network side of the network interface.

Point of Minimum Penetration (POMP)

First point on a customer's premises that the network facilities wiring is accessible.

Simple Service

Simple residence, non-residence and semi-public service includes exchange access lines and their associated facilities and equipment which met all of the following conditions:

1. The lines are served from their normal serving central office.
2. All terminations of the lines are confined to a single continuous property.
3. Customer premises equipment connected to such lines is limited to non-key telephones with associated miscellaneous or supplemental equipment.

Where more than one line is billed on a single account, the multi-line account is considered simple only when all the lines meet the criteria as outlined in 1. thru 3 preceding.

Material omitted from this sheet now appears in Section 2, sheet No. 7.

Issued: January 26, 1987

Effective: February 1, 1987

In accordance with Order No. 86-927-TP-COI issued by the Public Utilities Commission of Ohio, January 13, 1987.

(D)
|
(D)
(C)
(C)
(D)
|
(D)

P.U.C.O. No. 1
EXCHANGE AND NETWORK SERVICES TARIFF

EXCHANGE SERVICES

2. EXCHANGE SERVICE OFFERINGS (Cont'd)

2.1 Monthly Exchange Services (Cont'd)

B. Message Rate Services (Cont'd)

2. Rates and Charges (Cont'd)

	<u>Access Line Monthly Rate</u>	<u>Usage Package Monthly Rate</u>	(C)
b. <u>Non-Residence Service</u>			
Individual line-non-rotary.....	\$ 20.00	\$ 6.15	
Individual line-rotary.....	23.70	6.15	
Trunk line to PBX equipment.....	23.70	10.00	(C)

Issued: March 2, 1989

Effective: March 6, 1989

In accordance with Order No. 88-267-TP-ATA, issued by The Public Utilities Commission of Ohio, February 14, 1989.

By E. F. Bell, President, Cleveland, Ohio