

Released From Confidential Status

Case Numbers: 96-922-TP-UNC
96-974-TP-ATA
96-1057-TP-UNC

Date: 08/11/2008

Confidential Documents originally
filed 2/12/97- Ameritech Ex 28
Unbundled Tandem Switching
Modified TELRIC

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document delivered in the regular course of business
Technician _____ Date Processed 8-11-08

1 A) Unbundled Tandem Switching Modified TELRIC

B) Ameritech Ohio Exhibit 28

C) Type 2 and 4 Changes only

2	<u>Tab</u>	<u>Type Correction</u>
	2	4
	4	4
	5	4
	12	4
	12.1	2
	14	2 and 4
	14.1	2
	14.2	2
	16	2 and 4

3 None

AMERITECH - OHIO

UNBUNDLED TANDEM SWITCHING

COST STUDY
TELRIC-MODIFIED

FEBRUARY 12, 1997

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JURISDICTION - AMERITECH - OHIO
Unbundled Tandem Switching
Vintage of Study - 1996

TABLE OF CONTENTS

	TAB
Filing Package	
Cost Manager Provided Documentation	1
Cost Test	
Analysis Results	2
Demand Forecast	N/A
Rate Information	4
Cost Results	
Summary of Results	5
Study Assumptions	N/A
Ameritech Cost Information Database (ACID) Inputs	N/A
Overview Information	
Study Parameter Checklist	N/A
Study Purpose	9
Service Description	10
Study Methodology	11
Detailed Cost Development	
Recurring Cost/Cost Model Output	12
Investment / Investment Model Output	N/A
Nonrecurring Cost	14
Source Documentation	
Study Factor Documentation	15
Back-up Data	16

If a section is not appropriate, "NA" has been entered under "TAB"

AMERITECH - OHIO

UNBUNDLED TANDEM SWITCHING

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AMERITECH - OHIO
Unbundled Tandem Switching

Marginal Cost Test

	<u>COST</u>	<u>RATE</u>
Usage Without Tandem Trunks	\$ 0.000555	\$ 0.000723
Tandem Trunks (DS1)	\$ 150.73	\$ 196.42
 <u>NRCs</u>		
Service Order	\$ 272.43	\$ 355.79
Line Connection	\$ 585.37	\$ 756.75
Service Order - Add/Chg	\$ 19.98	\$ 26.53
	Tab 5	Tab 4

all Rates changed due to Tab 5
NRC costs changed due to Tab 5 & 12

Type - 4

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**AMERITECH - OHIO
Unbundled Tandem Switching**

Rate Summary

	<u>Price</u>	<u>SOURCE</u>
Usage Without Tandem Trunks	\$ 0.000723	Tariff
Tandem Trunks (DS1)	\$ 196.42	Tariff
 <u>NRCs</u>		
Service Order	\$ 355.79	Tariff
Line Connection	\$ 756.75	Tariff
Service Order - Add/Chg	\$ 26.53	Tariff

all prices changed due to TAB-5

7/2/97

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**AMERITECH - OHIO
Unbundled Tandem Switching**

Cost Summary

	<u>TELRIC COSTS</u>	<u>SHARED COSTS</u>	<u>COMMON COSTS</u>	<u>TOTAL COSTS</u>
<u>RECURRING</u>				
Usage Without Tandem Trunks	\$ 0.000555	\$ 0.000108	\$ 0.000060	\$ 0.000723
	TAB-12			
Tandem Trunk with Features	\$ 150.73	\$ 29.29	\$ 16.40	\$ 196.42
	TAB-12			
<u>NONRECURRING</u>				
Service Order	\$272.43	\$ 53.44	\$ 29.92	\$ 355.79
	TAB-14.1			
Line Connection	\$ 585.37	\$ 109.86	\$ 61.52	\$ 756.75
	TAB-14			
Service Order - Add/Chg	\$ 19.98	\$ 4.20	\$ 2.35	\$ 26.53
	TAB-14	TAB-16	TAB-16	

*costs changed due to tabs 12 & 12-1 plus
NVS, shared & common charges. Type-4*

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**AMERITECH - OHIO
Unbundled Tandem Switching**

STUDY PURPOSES

To provide cost support for Unbundled Tandem Switching as filed in Tariff 20.

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**AMERITECH - OHIO
Unbundled Tandem Switching**

SERVICE DESCRIPTION

Unbundled tandem switching performs the basic switching functions of creating a temporary transmission path that connects a trunk of the requesting telecommunications carrier to another trunk of that carrier or to a trunk of Ameritech, long distance carriers, other incumbent Local Exchange Carriers, Wireless Providers, and other telecommunications carriers interconnected to the tandem switch.

The Company-provided trunk port provides access to service enabling features and functionalities provided by a tandem switch such as switching, translations, screening, blocking, and route indexing based on the technical capability and service offering of the corresponding interconnecting trunk type.

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**AMERITECH - OHIO
Unbundled Tandem Switching**

STUDY METHODOLOGY

This study compares the revenues and costs for Unbundled Tandem Switching

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**AMERITECH - OHIO
Unbundled Tandem Switching**

TELRIC Development

Rate Element	COSTS (A)	NVS COSTS (B)	TELRIC COSTS (A) + (B)
Usage Without Tandem Trunks	\$ 0.000551	\$ 0.000004	\$0.000555
Tandem Trunk (DS1)	\$ 132.69	\$ 0.938091	\$ 133.63
TRUNK FEATURES	\$ 16.98	\$ 0.120045	\$ 17.10
TANDEM TRUNK WITH FEATURE	\$ 149.67	\$ 1.058136	\$ 150.73
	TAB 12.1	TAB 16	

*NVS costs added
from earlier studies. - pi - 7*

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**AMERITECH - OHIO
Unbundled Tandem Switching**

TELRIC Development

Usage without Tandem trunks

	A	B	C	D	E	F
	Call setup switching	expense	total	Duration switching per minute	avg. min per msg.	total
			A*B			D*E
1	0.001336	0.000468	0.001804	0.000026	3.438	0.0000894
	Cost per message 1C+1F		Cost per average minute 2A/1E			
2	\$0.001893		\$ 0.000551			

Tandem Trunks

	A Switch	B EF&I	C Meld	D ACF	E Total B*D	Monthly Cost Col-E/12
1	Investment	180.1319	Tab 16			
2	Trk's / DS1	24	Tab 16			
3	Total Trunk	4323.165	L1*L2	0.3647	1576.66	
4	DSX	50.35	Tab 16	0.3108	15.65	\$ 132.69

Trunk Features

	ATT	
1 Alternate Routing - Mult. Cust. Locations	45.23493	Tab 16
2 End Office Alternate Routing	45.23493	Tab 16
3 Service Clsas Routing	0	Tab 16
4 Trunk Access Limitation	159.36668	Tab 16
5 Call Gapping	246.62995	Tab 16
6 Band Advance	62.38043	Tab 16
7 Total per DS1	558.84692	Sum L1..L6
8 Technology Meld	5E/4E	1
9	558.84692	
10 ACF	0.3647	
11 Annual Cost	203.8114717	L10*L8
12 Monthly Cost	\$ 16.98	L11/12

tandem trunks - line 1-4 cost development shown type-7

Trunk Features - DMS removed DRA in this cost development shown. type-2

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OHIO

TELRIC-MODIFIED

Line	TRUNK PORT TRANSLATION MELD - TANDEM				11 50% PW/F/A	0 7214
	HOURS	HOURS	LABOR	PW F/A	TOTAL	
	4E/5E	TYPEST	WRITER	RATE		
3	INSTALL	3.0	4.0	\$ 43.65	\$ 1.00	\$ 305.55
4	REMOVE	3.0	4.0	\$ 49.91	\$ 0.72140	\$ 252.04
5						
6	<u>USC</u>			<u>TIME</u>	<u>RATE</u>	<u>COST</u>
6	Pre Service Setup			0.250	\$ 41.32	\$ 10.33
7	Verify & Release Order			0.167	\$ 41.32	\$ 6.90
8	Reverify & Close Order			0.083	\$ 41.32	\$ 3.43
9	Disconnect Order			0.083	\$ 38.00	\$ 3.15
10	Total					\$ 23.81
	NVS			Total TELRIC		
11	INSTALL	\$ 305.55				
12	REMOVE	\$ 252.04				
13	JSC	\$ 23.81				
14	TOTAL	\$ 581.40	3.97	\$ 585.37		

<u>SUBSEQUENT CHANGES</u>		TIME	<u>LABOR RATES</u>		P/F	COST
Centralized Translations GP:		A	B	C		(B*C)*A
15	Build Rte Index per trk grp.	0.333	\$ 40.75		1	\$ 13.57
16	Disc. Order	0.167	\$ 46.60	0.80436		\$ 6.26
17	Total					\$ 19.83
						\$ 19.83
						\$ 0.15
						\$ 19.98

Lines - 1 - 4 - DMS + EWSD Revised DVA in Ohio Costs Revised with new Labor rate to show cost development. Type 4

Line 9-10 Labor Rate changed Type 4

Line - 11-14 NVS changed Line - 14 Labor Rates in 1-10 caused other changes. Type 4

Lines - 15-17 - Labor Rate and NVS changed Type 4

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AMERITECH OHIO
 Nonrecurring Cost Study - UNBUNDLED SERVICES - TELRIC
 Ameritech DS-1 Service (New)

WORK GROUPS	A 1997 LABOR RATES	B ADMIN TIME (HOURS)	C ADMIN COST (A*B)	D DES. & CO TIME (HOURS)	E DES. & CO COST (A*D)	F CUST CON. TIME (HOURS)	G CUST CON. COST (A*F)	EXPLANATION OF WORK GROUPS
COF	\$41.26	0.75	\$30.95	0.00	\$0.00	0.00	\$0.00	Central Office Forces
CPC	\$38.55	0.39	\$14.88	0.00	\$0.00	0.00	\$0.00	Circuit Provisioning Center
FMAC	\$41.26	0.62	\$25.58	0.00	\$0.00	0.00	\$0.00	Fac. Maint. Admin Ctr. (prov)
ICSC	\$33.47	0.65	\$21.80	0.00	\$0.00	0.00	\$0.00	Interexchange Carrier Service
IFCPC	\$51.55	0.27	\$13.75	0.00	\$0.00	0.00	\$0.00	Interof. Fac. Current Plan. Ctr
ISSC	\$55.51	0.31	\$17.21	0.00	\$0.00	0.00	\$0.00	Interfunc. Special Services Center
LAC	\$30.97	0.67	\$20.65	0.00	\$0.00	0.00	\$0.00	Loop Assignment Center
OSPE	\$39.11	0.79	\$30.80	0.00	\$0.00	0.00	\$0.00	Outside Plant Engineering
PICS	\$52.69	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Plug-In Control System
PINT	\$41.54	0.29	\$12.12	0.00	\$0.00	0.00	\$0.00	Plant Installation and Testing
SCC	\$41.26	0.76	\$31.52	0.00	\$0.00	0.00	\$0.00	Switching Control Center
SOEC	\$26.69	0.01	\$0.27	0.00	\$0.00	0.00	\$0.00	Service Order Error Correction
SUBTOTAL			\$219.53		\$0.00		\$0.00	
S.O. Computer Process Cost			4.28					
TOTAL			\$223.81		\$0.00		\$0.00	

Total Includes Disconnect

Administrative Cost: \$270.50

Design & C.O. Cost: \$0.00

Customer Conn. Cost: \$0.00

NVS \$ 1.93

TOTAL TELRIC **\$272.43**

was added

page - 2

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AMERITECH OHIO
 Nonrecurring Cost Study - UNBUNDLED SERVICES - TELRIC
 Ameritech DS-1 Service (Disconnect)

WORK GROUPS	A 2000 LABOR RATES	B ADMIN TIME (HOURS)	C ADMIN COST (A*B)	D DES. & CO TIME (HOURS)	E DES. & CO COST (A*D)	F CUST CON TIME (HOURS)	G CUST CON COST (A*F)	EXPLANATION OF WORK GROUPS
COF	\$46.86	0.38	\$17.57	0.00	\$0.00	0.00	\$0.00	Central Office Forces
CPC	\$43.78	0.23	\$10.09	0.00	\$0.00	0.00	\$0.00	Circuit Provisioning Center
FMAC	\$46.86	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Fac Maint. Admin. Ctr. (prov)
CSC	\$38.01	0.41	\$15.76	0.00	\$0.00	0.00	\$0.00	Interexchange Carrier Service
FOPC	\$58.54	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Interof Fac Current Plan. Ctr
ISSC	\$63.04	0.003	\$0.19	0.00	\$0.00	0.00	\$0.00	Interfunc. Special Services Center
LAC	\$35.17	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Loop Assignment Center
OSPE	\$44.42	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Outside Plant Engineering
PICS	\$59.84	0.00	\$0.00	0.00	\$0.00	0.00	\$0.00	Plug-In Control System
PINT	\$47.18	0.25	\$11.80	0.00	\$0.00	0.00	\$0.00	Plant Installation and Testing
SCC	\$46.86	0.18	\$8.46	0.00	\$0.00	0.00	\$0.00	Switching Control Center
SOEC	\$30.31	0.01	\$0.30	0.00	\$0.00	0.00	\$0.00	Service Order Error Correction
SUBTOTAL			\$64.17		\$0.00		\$0.00	
Computer Cost			4.28					
Present Value (13.6%COM) 3 yrs.			0.68213					
TOTAL			\$46.69		\$0.00		\$0.00	

Administrative Cost. \$46.69
 Design & C O Cost \$0.00
 Customer Conn. Cost \$0.00

*Page added
 Typ. 1*

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**AMERITECH - OHIO
Unbundled Tandem Switching**

Study Factor Documentation

All factors for this study were taken from the Ameritech Cost Analysis Resource.

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**AMERITECH - OHIO ,
Unbundled Tandem Switching**

	<u>NVS COSTS</u>	<u>SHARED COSTS</u>	<u>COMMON COSTS</u>
Usage Without Tandem Trunks	\$ 0.000004	0.000108	0.000060
Tandem Trunks (DS1)	\$ 0.938091	25.968603	14.541339
Trunk Features	\$ 0.120045	3.323136	1.860818
Trunk with Features	\$ 1.058136	27.688950	15.715350
Service Order	\$ 1.93	53.440000	29.920000
Line Connect	\$ 3.97	109.860000	61.520000
Subsequent Changes	\$ 0.15	4.200000	2.350000

*Additional pages added to supports costs
used in study.*

*NVS numbers were added
shared and common were changed.*

+ pp - 4

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:00

Input #	Value	Description
IP1	29.00000	BH AR-MCL calls per Group

Rest of page added + sp-2

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Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:00

Technology: 5ESS

Vendor Name: Alternate Routing - Mult Cust Locations

Vendor #:

Study Name: OH93MO5E:01-24-96 (5E9.2, 02-95)

MO #	Value	Description
MO1	1.25792	Getting Started Inv. Per MS/Cycle

5ESS Material Discount: 9 %

5ESS Engineering and Installation Discount: 0 %

5ESS Technology Mix: 50.92 %

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Report: Marginal 1; Marginal

Technology: SESS Calculation: Marginal Date: 01/30/97 11:00

Category Equation(s) Cost Type

A - Getting Started Variable
 + MO1 x IP1 x RT801.00

Symbol	Value	Description
IP1	29.00000	BH AR-MCL calls per Group
MO1	1.25792	Getting Started Inv. Per MS/Cycle
RT801.00	1.24000	AR-MCL call incr.

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Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:00

Technology: DMS-100

Vendor Name: Alternate Routing - Mult Cust Loc

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

MO #	Value	Description
MO1	0.18381	Getting Started Inv. Per MS/Cycle

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

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Report: Marginal 1; Marginal

Technology: DMS-100

Calculation: Marginal

Date: 01/30/97 11:00

Category

Equation(s)

Cost Type

A - Getting Started

+ MO1 x IP1 x RT801.00

Variable

Symbol

Value

Description

IP1

29.00000

BH AR-MCL calls per Group

MO1

0.18381

Getting Started Inv. Per MS/Cycle

RT801.00

0.60000

AR-MCL call incr.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 801. Alternate Routing - Mult Cust Locations

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:00

Technology: SESS

(OH93MO5E:01-24-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	45.23493			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	45.23493	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 45.23493 per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 801. Alternate Routing - Mult Cust Locations

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:00

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	3.19831			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	3.19831	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 3.19831 per Office No Inv.

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Calculation: Marg-1 F, F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:04

Input #	Value	Description
IP1	29.00000	BH EOAR calls per Group

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:04

Technology: SESS

Vendor Name: End Office Alternate Routing

Vendor #:

Study Name: OH93MO5E:01-24-96 (5E9.2, 02-95)

MO #	Value	Description
MO1	1.25792	Getting Started Inv. Per MS/Cycle

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

SESS Technology Mix: 50.92 %

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Ameritech
SCIS/IN Features 2.1
Feature: 802. End Office Alternate Routing

Report: Marginal 1; Marginal

Technology: SESS Calculation: Marginal Date: 01/30/97 11:04

Category Equation(s) Cost Type

A - Getting Started Variable
+ MO1 x IP1 x RT802.00

Symbol	Value	Description
IP1	29.00000	BH EOAR calls per Group
MO1	1.25792	Getting Started Inv. Per MS/Cycle
RT802.00	1.24000	EOAR call incr.

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Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:04

Technology: DMS-100

Vendor Name: End Office Alternate Routing

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

MO #	Value	Description
MO1	0.18381	Getting Started Inv. Per MS/Cycle

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

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Ameritech
SCIS/IN Features 2.1
Feature: 802. End Office Alternate Routing

Report: Marginal 1; Marginal

Technology: DMS-100 Calculation: Marginal Date: 01/30/97 11:04

Category Equation(s) Cost Type

A - Getting Started Variable
 + MO1 x IP1 x RT802.00

Symbol	Value	Description
IP1	29.00000	BH EOAR calls per Group
MO1	0.18381	Getting Started Inv. Per MS/Cycle
RT802.00	0.60000	EOAR call incr.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 802. End Office Alternate Routing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:04

Technology: 5ESS

(OH93MO5E:01-24-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	45.23493			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	45.23493	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 45.23493 per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 802. End Office Alternate Routing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,P&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:04

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	3.19831			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	3.19831	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 3.19831 per Office No Inv.

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Ameritech
SCIS/IN Features 2.1
Feature: 806. Service Class Routing

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:10

Input #	Value	Description
IP1	1000.00000	BH SCR calls per Office

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Ameritech
SCIS/IN Features 2.1
Feature: 806. Service Class Routing

Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:10

Technology: 5ESS

Vendor Name: Service Class Routing

Vendor #: 30-09-0000

Study Name: OH93MO5E:01-24-96 (5E9.2, 02-95)

5ESS Material Discount: 9 %

5ESS Engineering and Installation Discount: 0 %

5ESS Technology Mix: 50.92 %

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Ameritech
SCIS/IN Features 2.1
Feature: 806. Service Class Routing

Report: Marginal 1; Marginal

Technology: SESS Calculation: Marginal Date: 01/30/97 11:10

Category Equation(s) Cost Type

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Ameritech
SCIS/IN Features 2.1
Feature: 806. Service Class Routing

Calculation: Marg-1 E,F&I

State: OH Input file: (untitled)

Date: 01/30/97 11:10

Technology: DMS-100

Vendor Name: Service Class Routing

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

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Ameritech
SCIS/IN Features 2.1
Feature: 806. Service Class Routing

Report: Marginal; Marginal

Technology: DMS-100 Calculation: Marginal Date: 01/30/97 11:10

Category Equation(s) Cost Type

F3 - Data Fill (DMS only) Variable
 + (MF806 / IP1) x IT16

Symbol Value Description

IP1 1000.00000 BH SCR calls per Office
IT16 0.00093 Data Fill cost per word
MF806 83.20000 Service Class Routing

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Ameritech
 SCIS/IN Features 2.1
 Feature: 806. Service Class Routing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:10

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Call	Shared Fixed per Call	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	0.00008			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	0.00008		NA	No Inv.	NA

TOTAL Investment: per Call 0.00008 per Office No Inv.

*X 24 TRKS X 12 BH CALLS/TRK
 = .02304 per TRK GROUP*

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Ameritech
 SCIS/IN Features 2.1
 Feature: 806. Service Class Routing

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:10

Technology: 5ESS

(OH93MO5E:01-24-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Call	Shared Fixed per Call	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	No Inv.			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	No Inv.	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Call No Inv. per Office No Inv.

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Ameritech
SCIS/IN Features 2.1
Feature: 807. Trunk Access Limitation

Calculation: Mang-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:15

Input #	Value	Description
IP1	29.00000	BH Originating calls per Trunk Group

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Ameritech
SCIS/IN Features 2.1
Feature: 807. Trunk Access Limitation

Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:15

Technology: SESS

Vendor Name: Trunk Access Limitation

Vendor #:

Study Name: OH93M05E:01-24-96 (SE9.2, 02-95)

MO #	Value	Description
MO1	1.25792	Getting Started Inv. Per MS/Cycle
MO2	4.62129	SM Real Time Inv. Per EPHC
MO2.1	0.00000	SM-2000 Real Time Inv. Per EPHC

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

SESS Technology Mix: 50.92

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Ameritech
SCIS/IN Features 2.1
Feature: 807. Trunk Access Limitation

Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:15

Technology: DMS-100

Vendor Name: Trunk Access Limitation

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

MO #	Value	Description
MO1	0.18381	Getting Started Inv. Per MS/Cycle

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

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Ameritech
 SCIS/IN Features 2.1
 Feature: 807. Trunk Access Limitation

Report: Marginal 1; Marginal

Technology: DMS-100 Calculation: Marginal Date: 01/30/97 11:15

Category	Equation(s)	Cost Type
A - Getting Started	+ MO1 x IP1 x RT807.00	Variable
F3 - Data Fill (DMS only)	+ MF807.00 x IT16	Variable

Symbol	Value	Description
IP1	29.00000	BH Originating calls per Trunk Group
IT16	0.00093	Data Fill cost per word
MF807.00	65.00000	Per SFG
MO1	0.18381	Getting Started Inv. Per MS/Cycle
RT807.00	0.82800	Call incr. on TAL trunk group

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Ameritech
 SCIS/IN Features 2.1
 Feature: 807. Trunk Access Limitation

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:15

Technology: SESS

(OH93MO5E:01-24-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	62.38043			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	96.98625			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	159.36668	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 159.36668 per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 807. Trunk Access Limitation

Report: Marginal 1; Marginal

Calculation: Marg-1 E, F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:15

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	4.41367			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	0.06068			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	4.47435	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 4.47435 per Office No Inv.

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Ameritech
SCIS/IN Features 2.1
Feature: 808. Call Gapping

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:18

Input #	Value	Description
IP1	288.00000	BH Originating calls per Trunk Group
IP2	29.00000	BH CGAP calls per Trunk Group

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Ameritech
SCIS/IN Features 2.1
Feature: 808. Call Gapping

Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:18

Technology: SESS

Vendor Name: Manual Call Gapping

Vendor #: 45-18-0201

Study Name: OH93MO5E:01-24-96 (SE9.2, 02-95)

MO #	Value	Description
MO1	1.25792	Getting Started Inv. Per MS/Cycle
MO2	4.62129	SM Real Time Inv. Per EPHC
MO2.1	0.00000	SM-2000 Real Time Inv. Per EPHC

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

SESS Technology Mix: 50.92 %

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Ameritech
 SCIS/IN Features 2.1
 Feature: 808. Call Gapping

Report: Marginal 1; Marginal

Technology: SESS Calculation: Marginal Date: 01/30/97 11:18

Category Equation(s) Cost Type

A - Getting Started Variable
 + MO1 x IP1 x RT808.00
 + MO1 x IP2 x RT808.01

C5 - EPHC Variable
 + MO2 x IP1 x RS808.00 / AT3 x (1 - SMP)
 + MO2 x IP2 x RS808.01 / AT3 x (1 - SMP)
 + MO2.1 x IP2 x RM808.01 / AT3.01 x SMP
 + MO2.1 x IP1 x RM808.00 / AT3.01 x SMP

Symbol	Value	Description
AT3	76.00000	Realtime per average EPHC
AT3.01	16.89000	Realtime per average EPHC (SM2K)
IP1	288.00000	BH Originating calls per Trunk Group
IP2	29.00000	BH CGAP calls per Trunk Group
MO1	1.25792	Getting Started Inv. Per MS/Cycle
MO2	4.62129	SM Real Time Inv. Per EPHC
MO2.1	0.00000	SM-2000 Real Time Inv. Per EPHC
RM808.00	0.00000	Call on trunk group w/CGAP
RM808.01	11.11000	CGAP blocked call
RS808.01	50.00000	CGAP blocked call
RS808.00	0.00000	Call on trunk group w/CGAP
RT808.01	0.57000	CGAP blocked call
RT808.00	0.38000	Call on trunk group w/CGAP
SMP	0.00000	Percent Of Calls On SM-2000s / (100)

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Ameritech
SCIS/IN Features 2.1
Feature: 808. Call Gapping

Calculation: Marg 1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:18

Technology: DMS-100

Vendor Name: Call Gapping

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

MO #	Value	Description
MO1	0.18381	Getting Started Inv. Per MS/Cycle

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

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Ameritech
 SCIS/IN Features 2.1
 Feature: 808. Call Gapping

Report: Marginal 1; Marginal

Technology: DMS-100 Calculation: Marginal Date: 01/30/97 11:18

Category	Equation(s)	Cost Type
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A - Getting Started	$+ MO1 \times IP1 \times RT808.00$ $+ MO1 \times IP2 \times RT808.01$	Variable
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F3 - Data Fill (DMS only)	$+ MF808.00 \times IT16$	Variable
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Symbol	Value	Description
IP2	29.00000	BH CGAP calls per Trunk Group
IP1	288.00000	BH Originating calls per Trunk Group
IT16	0.00093	Data Fill cost per word
MF808.00	65.00000	Memory per SFG
MO1	0.18381	Getting started Inv. Per MS/Cycle
RT808.01	9.10800	CGAP blocked call
RT808.00	0.82800	Call on trunk group w/CGAP

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Ameritech
 SCIS/IN Features 2.1
 Feature: 808. Call Gapping

Report: Marginal 1; Marginal

Calculation: Marg-1 E,P&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:18

Technology: 5ESS (OH93MO5E:01-24-96 (SE9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	158.46063			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	88.16932			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	246.62995	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 246.62995 per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 808. Call Gapping

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:18

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	92.38268			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	0.06068			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	92.44336	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 92.44336 per Office No Inv.

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Ameritech
SCIS/IN Features 2.1
Feature: 813. Band Advance

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:22

Input #	Value	Description
IP1	29.00000	BH BA calls per Group

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Calculation: Marg- 7, F&I
State: OH Input File: (untitled)

Date: 01/30/97 11:22

Technology: SESS

Vendor Name: Band Advance

Vendor #: 01-02-2003

Study Name: OH93MO5E:01-24-96 (5E9.2, 02-95)

MO #	Value	Description
MO1	1.25792	Getting Started Inv. Per MS/Cycle

SESS Material Discount: 9 %

SESS Engineering and Installation Discount: 0 %

SESS Technology Mix: 50.92 %

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Ameritech
SCIS/IN Features 2.1
Feature: 813. Band Advance

Report: Marginal 1; Marginal

Technology: SESS Calculation: Marginal Date: 01/30/97 11:22

Category Equation(s) Cost Type

A - Getting Started Variable
+ MO1 x IP1 x RT813.00

Symbol	Value	Description
IP1	29.00000	BH BA calls per Group
MO1	1.25792	Getting Started Inv. Per MS/Cycle
RT813.00	1.71000	BA call incr.

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Ameritech
SCIS/IN Features 2.1
Feature: 813. Band Advance

Calculation: Marg-1 E,F&I

State: OH Input File: (untitled)

Date: 01/30/97 11:22

Technology: DMS-100

Vendor Name: Band Advance

Vendor #: NTX

Study Name: OH100F93:01-24-96 (NA004, 10-95)

MO #	Value	Description
MO1	0.18381	Getting Started Inv. Per MS/Cycle

DMS-100 Material Discount: 83.33 %

DMS-100 Engineering Discount: 0 %

DMS-100 Installation Discount: 0 %

DMS-100 Technology Mix: 49.08 %

BELLCORE CONFIDENTIAL - RESTRICTED ACCESS
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Ameritech
SCIS/IN Features 2.1
Feature: 813. Band Advance

Report: Marginal 1; Marginal

Technology: DMS-100 Calculation: Marginal Date: 01/30/97 11:22

Category Equation(s) Cost Type

A - Getting Started Variable
+ MO1 x IP1 x RT813.00

Symbol	Value	Description
IP1	29.00000	BH BA calls per Group
MO1	0.18381	Getting Started Inv. Per MS/Cycle
RT813.00	0.60000	BA call incr.

BELLCORE CONFIDENTIAL - RESTRICTED ACCESS
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Ameritech
 SCIS/IN Features 2.1
 Feature: 813. Band Advance

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:22

Technology: SESS

(OH93MOSE:01-24-96 (5E9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	62.38043			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	62.38043	NA	NA	No Inv.	No Inv.

TOTAL Investment:

per Group 62.38043

per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 813. Band Advance

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:22

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	3.19831			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	3.19831	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 3.19831 per Office No Inv.

BELLCORE CONFIDENTIAL - RESTRICTED ACCESS
 See confidentiality restrictions on the title screen.
 PROPRIETARY - NOT TO BE DISCLOSED OUTSIDE OF AMERITECH
 WITHOUT WRITTEN AGREEMENT

Ameritech
 SCIS/IN Features 2.1
 Feature: 813. Band Advance

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:22

Technology: 5ESS

(OH93MO5E:01-24-96 (SE9.2, 02-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	62.38043			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	62.38043	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 62.38043 per Office No Inv.

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Ameritech
 SCIS/IN Features 2.1
 Feature: 813. Band Advance

Report: Marginal 1; Marginal

Calculation: Marg-1 E,F&I

State: OH

Input File: (untitled)

Date: 01/30/97 11:22

Technology: DMS-100 (OH100F93:01-24-96 (NA004, 10-95))

Investment Category	Variable	Direct Fixed per Group	Shared Fixed per Group	Direct Fixed per Office	Shared Fixed per Office
A. Getting Started	3.19831			No Inv.	No Inv.
B. CCS	No Inv.			No Inv.	No Inv.
C. Call	No Inv.			No Inv.	No Inv.
D. Minimum per Line	No Inv.			No Inv.	No Inv.
E. Hardware	No Inv.			No Inv.	No Inv.
F. Memory	No Inv.			No Inv.	No Inv.
G. SSP Octet	No Inv.			No Inv.	No Inv.
H. Total End Office	3.19831	NA	NA	No Inv.	No Inv.

TOTAL Investment: per Group 3.19831 per Office No Inv.

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Ohio Service Order Computer Processing Cost for DSO, DS1, and DS3 - Unbundled

System	CPU usage MIPS	Service Order % usage	Service Order CPU usage	DASD Storage GBs	Service Order % storage	Service Order DASD Storage
EXACT/ARIS/PBSI	63	1.00	63.00	37	1.00	37.00
DSF (LFACS)	169	0.20	33.80	220	0.25	55.00
SWITCH	6	0.90	5.40	12	0.90	10.80
TIRKS	50	0.40	20.00	248	0.40	99.20
WFA/DI/DO	114	1.00	114.00	240	1.00	240.00
WFA/C	76	0.60	45.60	159	0.60	95.40

Total Svc Order Usage & Storage in 1 month 281.80 537.40

Capital \$ per MIPS \$51,500 Capital \$ per GB \$5,120
 \$ 14,512,700 + \$ 2,751,488 = \$ 17,264,188
 Annual \$ 207,170,256

Ohio annual charge factor TELRIC 0.3341

Annual costs \$ 69,215,583

Other annual costs per system
 ASCOT 900,000
 PAWS 810,357

Total Region annual costs A. \$ 70,925,940

Total Region no. of svc. orders per year B. 16,889,518

Computer processing cost per service order 4.20