

経済と経営 19-3 (1988. 12)

〈研究ノート〉

アメリカ電気通信事業の実状*

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は じ め に

電気通信事業の自由化は複数の事業者が一つの市場の中で競争することによって、利用者側のニーズにあわせて事業者を選択できるとともに、これまでの通信料金体系そのものも変化することを期待した。すこしずつではあるが近年その成果は通信料金の値下げというかたちで実現している。

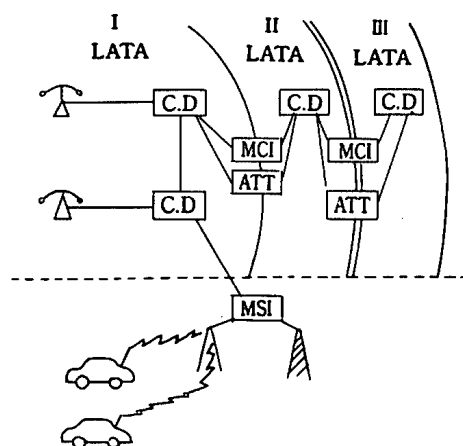
ここでは、先に自由化されたアメリカのケース、特にニューヨークを中心に行った実態調査（1988年3月29日－4月11日）を基に、(1)規制対象地域電話会社 NYNEX の実状と地域電話会社と長距離電話会社の関係、(2)自由化された長距離電話会社 MCI, US Sprint と AT&T の料金比較を行い将来の研究の一助とすることを目的とする。

* 本稿は 1987 年度電気通信普及財団より研究資金の援助を受けた成果の一部である。アメリカにおける実態調査の節には以下の多くの方々より懇意な情報や資料の提供を受けた。ここに紙面をおかりして心より感謝するものである。NTT アメリカ笹岡氏, MCI Mr. Zecola, 拓銀ニューヨーク支店江幡氏, GTE Mr. Song, Mr. Holmes, Mr. Schrag, NYNEX Mr. Lofaso, Mr. Tedesco, Ms. May, F.C.C. Ms. Nitsche, NTT 野田氏, コロンビア大学 Dr. Patrik, Dr. Kramer, ニューヨーク州政府 Dr. Noam, ノースカロライナ州立大学 Dr. Flath, Dr. Nariu, 北海道新聞ワシントン支局水上氏, UL Mr, Ms. Iwasaki.

(1) 「NYNE の実状」

1984 年、法律により ATT と地域電話会社に対する規制と自由化がはじまった。連邦レベルの対策では、可能なかぎり家庭用の電話料金は低い水準がよいと考えている。local な電話料金は州政府が規制、認可を行う。テキサスでは州政府の規制がない。ニューヨーク州に関しては、州レベルの LATA (Local Access Transportation Area) が 7 地域ある。NYNEX 社はニューヨークとニュイングランドでサービスを提供している規制対象電話会社である。また、ロチェスター、アルバニー、シラキュースについては独立電話会社のみがサービスを行なっている。(図 3 と資料 1 参照)。州政府の規制対象サービスはケーブル使用の電話サービスである。例えば自動車電話はマイクロ波を使用するのであるが、これは対象外とされる。長距離通話には I, II, III という 3 種類のものがある。I の例としては New York City 内から New York Metropolitan LATA 内の例えば Nassau に電話をするケース。II は New York City から Rochester に電話するケース。III は New York City から Washington, DC に電話するケースである。II, III のレベルで長距離電話を行なうときは必ず長距離電話会社を利用する (例えば, MCI, ATT 等)。長距離電話会社は、州内サービスでは州政府, 州際サービスでは FCC に対して報告義務がある (図 1 参照)。

(図 1)



資料 1



Regional Calling Areas

25

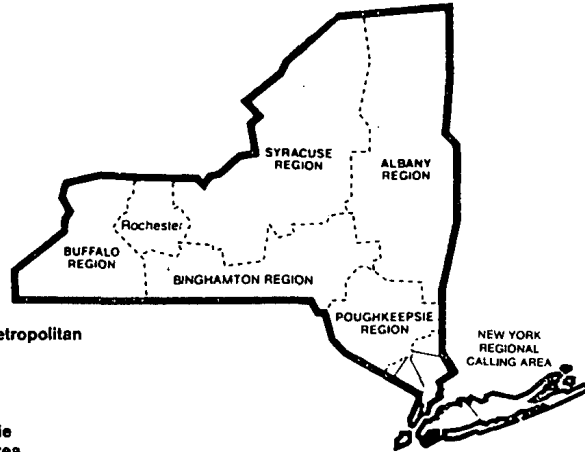
Regional Calling Areas are boundaries within which New York Telephone provides service.

New York Telephone handles calls only within these Regional Calling Areas. Calls between these areas are handled by long-distance companies. These companies are listed in the New York Telephone Yellow Pages under "Telephone" headings.

New York Telephones Regional Calling Areas

- New York Metropolitan Calling Area: includes New York City-Area Codes (212) and (718); Long Island-Area Code (516), except Fishers Island; Westchester, Rockland, Putnam and the southern portion of Orange County (Greenwood Lake, Highland Falls & Tuxedo)-Area Code (914), and the Greenwich/Byram section of Connecticut which is served by New York Telephone-Area Code (203).
- Poughkeepsie consists of the remainder of Orange County, Dutchess, Ulster and Sullivan counties-all of Area Code (914) not covered in the New York Metropolitan Regional Calling Area.
- Albany: covers the Capital District and Adirondack region-all of Area Code (518).
- Syracuse: covers all of Area Code (315) and the northern-most portion of Area Code (607), including Cortland, Ithaca, Newfield, Lansing, Groton, McLean and McGraw.
- Binghamton: covers Area Code (607), excluding the area covered by the Syracuse Regional Calling Area.
- Buffalo: covers Area Code (716), except the Rochester Telephone Company and the other independent telephone companies in the Rochester Area.

NEW YORK STATE REGIONAL CALLING AREAS



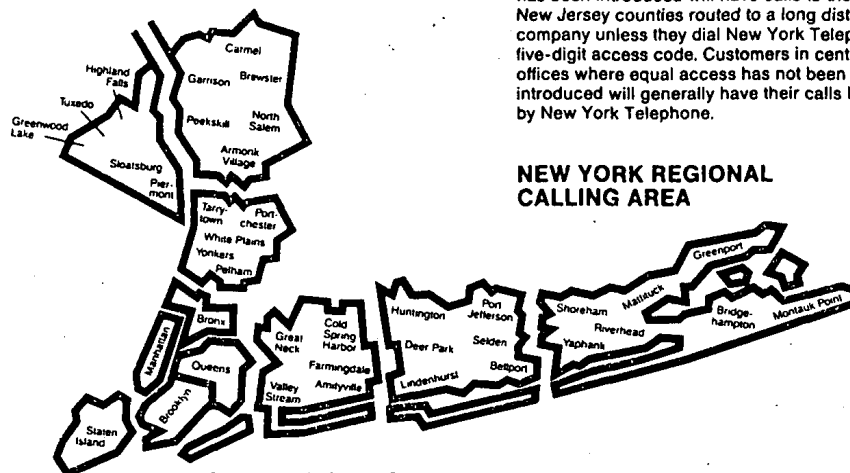
New York Metropolitan
Buffalo
Binghamton
Syracuse
Albany
Poughkeepsie
Rochester Area

Your Calling Area

New York Telephone handles all calls placed within and to New York City, from Long Island, Westchester, Rockland, and Putnam counties, and the southern portion of Orange County. In addition, we are permitted to provide service from New York City to the five northern New Jersey counties of Hudson, Union, Essex, Bergen and Passaic, and the Greenwich/Byram section of Connecticut.

Customers in central offices where equal access has been introduced will have calls to the five New Jersey counties routed to a long distance company unless they dial New York Telephone's five-digit access code. Customers in central offices where equal access has not been introduced will generally have their calls handled by New York Telephone.

NEW YORK REGIONAL CALLING AREA



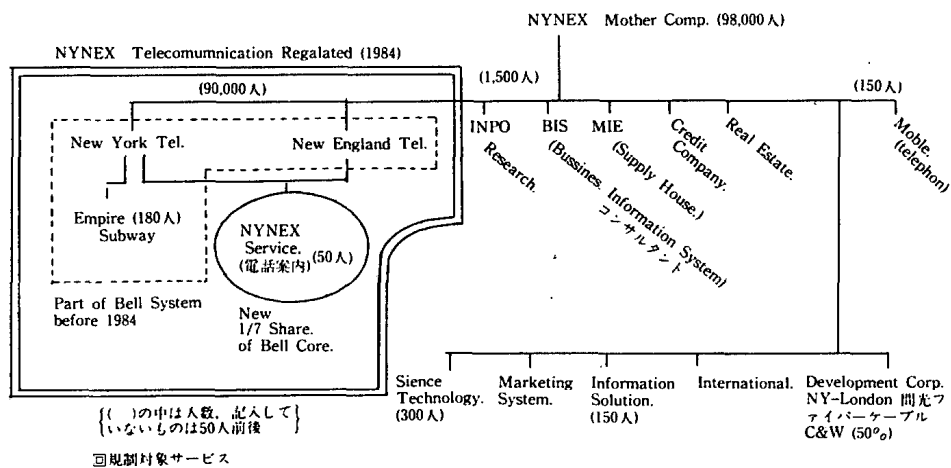
MANHATTAN

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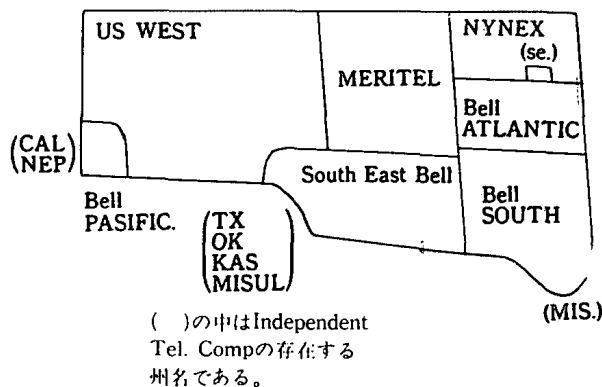
NYNEX の関連会社は次のような現状にある (図 2 参照)。

全米では約 1500 の独立電話会社 (ATT 系の会社でないという意味) が存在する。分割された ATT 系地域会社を図示すると以下のようなになる (図 3 参照)。

(図 2)



(図 3)



地域電話料金について、NYNEX では、家庭用の場合、設置基本料金として月額 \$ 3.64、加えて New York City 内における Untimed Service として月額 \$ 7.44、Timed Service を選択すれば月額 \$ 6.47 である (資料 2 参照)。

Untimed Service の場合各電話ごと (call と呼ぶ) に 10.2¢、Timed Service では最初の 5 分間 8.1¢、それを超えると毎分 1.1¢ ずつ加金されることになる。従って最低 Untimed Service を選択する場合 \$ 11.08 が月額基本

料金となり、それからは各 call 毎の料金が加算されることになる。また Timed Service を選択すれば月額基本料金は \$ 10.11 である (表 1 資料 3, 4 参照)。

表 1

設置基本料金 月額	\$ 3.64		
Untimed Service 月額	\$ 7.44	Timed Service 月額	\$ 6.47
各 Call 毎加算額	10.2¢	最初の 5 分	8.1¢
		5 分以降毎分	1.1¢

New York City 以外の New York Regional Calling Area では資料 4 Changes for calls to Other Regions に示されるごとく、加算料金となる。例えば月曜日の朝 10 時に New York City の自宅から Nassau に電話をかけるとすれば、最初の 1 分間 14.7¢, 2 分目から毎分 4.6¢ 加金されることになる。なお日本と同様曜日と時間によって割引が行なわれており、資料 4 Rate Time Periods では、月曜から金曜 (8 AM から 9 PM) までは規定料金。月曜から金曜 (9 PM から 11 PM) と日曜 (5 PM から 11 PM) までは 35% 割引。月曜から金曜 (11 PM から 8 AM), 土曜日全日, 日曜 (8 AM から 5 PM) までは 60% 割引となっている¹⁾。

(2) 「長距離通話料金の比較 ATT と MCI, USSP」

最新の料金表 (1988 年 4 月 1 日) に基づく ATT と MCI, USSP の長距離

注) 1) 資料 1 ~ 4 は New York Telephone, NYNEX White Pages の, それぞれ p. 25, p. 7, p. 22, p. 23 である。

2) 表 2 は, ATT 社, John J. Cotter 氏よりのアンケート解答と, USSprint 社 TARIFF F. C. C. No. 1, 5th Revised Page No. 50, Cancels 4th Revised Page No. 50, MCI 社 TARIFF F. C. C. No. 1, 7th Revised Page No. 18.3, Cancels 6th Revised page No. 18.3 より作成した。

表 2 (例) 月曜日の朝10時, ニューヨークの自宅から以下の都市に
直通電話をかける。

	最 初 の 1 分			追加料金 (1 分毎)		
	ATT	MCI	USSP	ATT	MCI	USSP
ワシントン (205M)	29¢	24.49¢ (15%)	24.25¢ (21%)	24¢	23.95¢	23.95¢
シカゴ (750M)	31	27 (13%)	29 (6.5%)	27	26.94	26.94
ボストン(187.5M)	29	24.49 (15%)	24.25 (16%)	24	23.95	23.95
アトランタ (750M)	31	27 (13%)	29 (6.5%)	27	26.94	26.94
ロサンゼルス (2625M)	36	28.80 (20%)	32.27 (10%)	28	27.94	27.94

* () は ATT に対する割引率

** 距離と料金との関係については, 各社によって加金距離区間が異なる。

	ワ シ ン ト ン			シ カ ゴ			ロ サ ン ゼ ル ス		
	ATT	MCI	USSP	ATT	MCI	USSP	ATT	MCI	USSP
3分	0.77\$	0.7239\$(6%)	0.7215\$(6.3%)	0.85\$	0.8028\$(6%)	0.8288\$(2.5%)	0.92\$	0.8468\$(8%)	0.8815\$(4.2%)
5分	1.25	1.2029 (4%)	1.2005 (4%)	1.39	1.3476 (3%)	1.0805 (2.2%)	1.48	1.4056 (5%)	1.4403 (2.7%)
10分	2.45	2.4004 (2%)	2.398 (2.1%)	2.74	2.6946 (1%)	2.7146 (0.1%)	2.88	2.8026 (3%)	2.8373 (2.5%)

* は () ATT に対する割引率

通話料金を比較する。(表 2 参照)²⁾。全般的に通話時間が短くて遠くへ電話をかける時 MCI と USSP は有利となる。

参 照 資 料

MCI, *TARIFF F.C.C. No. 1*, 7th Revised Page No. 18.3, Cancels 6th Revised Page No. 18.3

New York Telephone, *NYNEX White Pages, Manhattan, Area Code 212, 1988 - 1989*, p. 7, p. 22, p. 23 p. 25.

US Sprit, *TARIFF F. C. C. No. 1* Revised Page No. 50, Cancels 4 th Revised Page No. 50,

資料 2



7

Types of home telephone service

Your basic monthly service charge is likely to consist of a charge for an exchange access line from our central office to your residence and a charge for inside wire that connects your telephone to that line. The wire charge consists of two components: a wire maintenance charge of 95¢ and a wire investment charge of \$1.33 for a total of \$2.28 monthly for the first telephone. The wire maintenance charge for each additional telephone is 95¢. (If you provide all of your own inside wire, or purchase all of the existing leased wire, wire charges do not apply.)

1. Basic Budget service. The lowest-priced individual-line service is \$3.64 monthly for the exchange access line (not including taxes and applicable locality rate or surcharges). This service—which has no monthly allowance for outgoing local calls—is designed for residence customers who need a phone mostly to receive calls, or who make few outgoing calls. For more information about charges for calls within the New York Regional Calling Area see pages 20-22, or call your Service Representative.

2. Untimed service. The basic monthly exchange access line charge for this service is \$7.44 (not including taxes and applicable locality rate or surcharges). This includes a \$4.00 monthly allowance for all calls made within the New York Regional Calling Area. For more information about charges for calls within the New York Regional Calling Area, see pages 20-22, or call your Service Representative.

3. Timed service. The basic monthly exchange access line charge for this service is \$8.47 (not including taxes and applicable locality rate or surcharges). This includes a \$4.00 monthly allowance for all calls made within the New York Regional Calling Area. Calls within your home region are timed with additional charges for each minute of overtime after the first five minutes. For more information about charges for calls within the New York Regional Calling Area see pages 20-22, or call your Service Representative.

4. Life Line Service. Eligible low-income customers can have basic telephone services for as little as \$1.00 a month. You qualify if you receive assistance from at least one of these programs: Medicaid, Food Stamps, Home Relief, Supplemental Security Income, Aid to Families with Dependent Children or Home Energy Assistance Program (HEAP). Eligible customers can choose one of these options:

- **Basic Life Line** costs \$1.00 a month. You pay Message Rate charges for all outgoing calls, but there is a 10% discount on the first \$5.00 worth of local calls, per month. You are exempt from the FCC line charge.

- **Expanded Life Line** costs \$10.00 a month. You pay \$1.00 for basic telephone line and \$9.00 for the ability to make \$10.00 worth of local calls. You are exempt from the FCC line charge.

- **Flat Rate Life Line**, where available, you receive a \$2.60 discount on your monthly telephone service.

If you are a Life Line customers and you don't choose one of the new Life Line options, you will continue to receive \$2.60 discount. However, all Message Rate and Basic Budget Life Line customers will save money by choosing one of the new options. If you now have Flat Rate Life Line service and do not make a lot of local calls, you may save more by switching to one of the new options. Call your Service Representative for more information about this service.

\$2.60 Monthly Line Charge

A \$2.60 monthly line charge ordered by the Federal Government (F.C.C.) is added to the monthly charges shown for home telephone service.

One-time charges to install or change your service

The charges to install or change your residence service will vary according to the work that is done. If you prefer, you may spread the payments over as many as 12 equal monthly installments without interest. This arrangement must be made when your order is placed.

You can save on installation costs by reusing the wire and jacks in place or by doing your own wiring. The minimum charge for a new line is \$52.70 or \$24.00 if you subscribe to Life Line service. The maximum charge varies depending upon the actual work done. Here is a list of the elements used to figure installation charges:

Service Charge . . . \$15.50

This reflects the work involved in negotiating, recording and processing requests for service or change of service. This charge also applies for changes in telephone numbers requested by customers.

In addition to the above charge, one or more of the following charges may apply whenever work is done to install or change your service:

Premises Visit Charge . . . \$11.95

When a technician visits your home to install or change your service, this charge may apply.

The charges for inside wire and jack installation will be based on the time it takes the technician to complete the installation and the actual material used.

Standard Network Interface/Network Interface . . . \$17.54/\$12.75

One of these charges applies for the work done when an interface jack is installed at the end of the Company's line.

Record Order Charge . . . \$9.90

This covers cost associated with receiving, recording and processing customer requests which involve only a change in company records, such as changes in directory listings.

Line Charge . . . \$37.20 per line

This covers work done in the central office to connect each central office line or mileage circuit. A \$25.35 charge applies for changes in telephone numbers requested by customers.

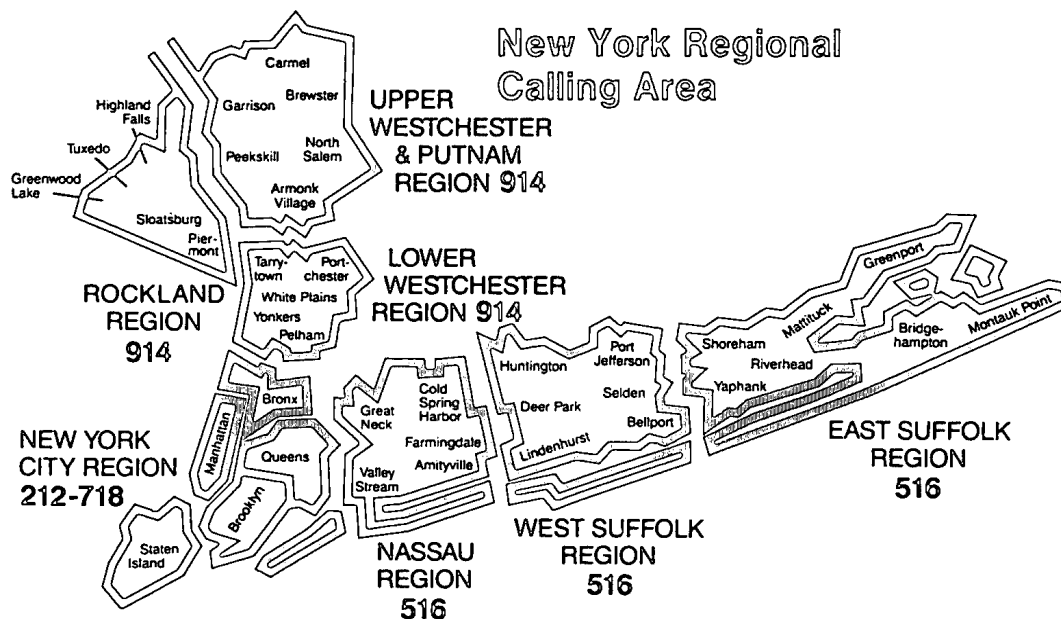
資料 3

22



Local Calling

Your local calling area includes all calls made within the New York Regional Calling Area.



As indicated on the above map, the New York Regional Calling Area includes seven calling regions.

New York City (Your Home Region*)

Nassau

West Suffolk

East Suffolk

Lower Westchester

Upper Westchester and
Putnam

Rockland (including a small portion of
Orange County, Greenwood Lake, Highland Falls
and Tuxedo).

The \$4.00 monthly residential calling allowance included in the monthly service charge for untimed service and timed service applies to all calls made within the New York Regional Calling Area.

* Your "Home Region" is the area where local calls cost the least. See page 23 for details.

MANHATTAN

資料 4



23

Charges for calls to New York City (Home Region)

Basic budget and untimed service customers -- 10.2¢ for each call regardless of the length of the conversation.

Timed Service Customers -- 8.1¢ for the first five minutes -- 1.1¢ for each additional minute.

Mass announcement exchanges 970 and 976 - 28¢ for each call.

Charges for calls to Other Regions

Region (Area Code)	Initial Minute	Additional Minute
Lower Westchester (914)	14.7¢	4.6¢
Nassau (516)	14.7¢	4.6¢
Upper Westchester and Putnam (914)	25.5¢	11.3¢
Rockland (914)	25.5¢	11.3¢
West Suffolk (516)	25.5¢	11.3¢
East Suffolk (516)	35.6¢	20.3¢

Exchange lists of 516 and 914 area codes by Region appear on page 24.

Holidays

The 35% discount applies 8 a.m. to 11 p.m. on five legal holidays - Christmas, New Year's, Thanksgiving, Independence Day and Labor Day. From 11 p.m. to 8 a.m. the 60% discount applies. If a holiday falls on a weekend, but is legally celebrated on a weekday, holiday rates apply on the legally celebrated day.

Rate Time Periods *

	Mon.	Tues.	Wed.	Thurs.	Fri.	Sat.	Sun.
8 AM to 9 PM	FULL						8 AM to 5 PM
9 PM to 11 PM	35% Discount						5 PM to 11 PM
11 PM to 8 AM	60% Discount						

*The most accurate way to figure the cost of a call is to use the full rate for the total time - then subtract the 35% or 60% discount and round to the lower penny.

NYNEX ECONOPATHSM CALLING PLANS = BIG SAVINGS!

New York Telephone offers volume discounts for calls within your Regional Calling Area. These "NYNEX ECONOPATH Calling Plans," are available to both residence and business customers.

Here's how they work:

For Residence Customers:

ECONOPATH allows residential customers to select special rate plans for the regions they call most often. Discount plans apply to all hours so calls need not be restricted to a specific time period.

A minimum monthly rate provides customers with discounts of up to 20% on specific amounts of calling. The discount is determined by the plan selected and the volume of calls. Overtime charges are also discounted. Four plans have been designed for customers with heavy, medium, light or very light calling volumes.

To see if you would be a good candidate for an ECONOPATH plan:

- Check the Details of Local Usage section of your New York Telephone bill.
- See how much you're spending on calls to each of the six regions outside your home region, but within your Regional Calling Area. (Your home region is not eligible for an ECONOPATH discount.)
- Check the plans to see which suit your calling patterns. If you find yourself making a lot of calls to the same regions every

month, one or more of these volume discount plans are for you. For example, if you make more than \$25.00 worth of calls per month to another region a "Heavy" volume ECONOPATH plan can save you at least \$5.00. You may choose only one plan per region.

Type of Calling	Cost of Plan	Actual Value of Plan
Heavy	\$20.00	\$25.00
Medium	\$17.00	\$20.00
Light	\$13.00	\$15.00
Very Light	\$ 9.00	\$10.00

For Business Customers

ECONOPATH business plans apply to all calling hours, with discounts ranging up to 20%.

There are three types of plans: heavy, medium and light.

Type of Calling	Cost of Plan	Actual Value of Plan
Heavy	\$200.00	\$250.00
Medium	\$170.00	\$200.00
Light	\$135.00	\$150.00

As with other changes in service, when you sign up for a NYNEX ECONOPATH Calling Plan, or change from one plan to another, there is a charge to cover the cost of the change. This record order charge is \$9.90 for residence customers and \$35.10 for business customers. If you place more than one order at a time, you will incur only one record order charge.