

Internet CEI Plan

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, D.C. 20554

In the Matter of)
)
Offer of Comparably Efficient) CCB Pol. 96-
Interconnection to Providers of)
Enhanced Internet Access Services)

PLAN TO OFFER COMPARABLY EFFICIENT INTERCONNECTION

The Bell Atlantic telephone companies¹ hereby submit a comparably efficient interconnection ("CEI") plan for their proposed Internet Access Service. Bell Atlantic plans to offer a range of Internet access features on an integrated basis throughout its operating area.

I. Introduction and Summary.

The Internet is widely recognized as the initial world-wide implementation of the "Information Superhighway." As a global collection of databases and conduit for electronic mail, information from a host of commercial and non-commercial sources, and the locus of business transactions, the Internet has drawn tens of millions of people to their personal

¹ For the purpose of this filing, the term "Bell Atlantic" includes the Bell Atlantic telephone companies, Bell Atlantic Internet Solutions, Inc. ("BAIS"), and other affiliates that henceforth may be established to offer enhanced Internet access services. The Bell Atlantic telephone companies are Bell Atlantic-Delaware, Inc.; Bell Atlantic-Maryland, Inc.; Bell Atlantic-New Jersey, Inc.; Bell Atlantic-Pennsylvania, Inc.; Bell Atlantic-Virginia, Inc.; Bell Atlantic-Washington, D.C., Inc.; and Bell Atlantic-West Virginia, Inc.

computers, and “analysts expect the figure to grow quickly over the next several years.”² Bell Atlantic’s Internet Access Service will enable individuals and businesses to access the Internet quickly and easily, browse the multitude of databases for the desired information, and communicate with other users through electronic mail, user groups, and other capabilities of this diverse medium.

As an Internet provider, Bell Atlantic will join a large number of competing companies, large and small, that are affording customers access to the Internet. While Bell Atlantic will attempt to distinguish its service from others by offering a feature-rich and user-friendly platform, there is no lack of competition in this growing field.³

II. Description of Service.

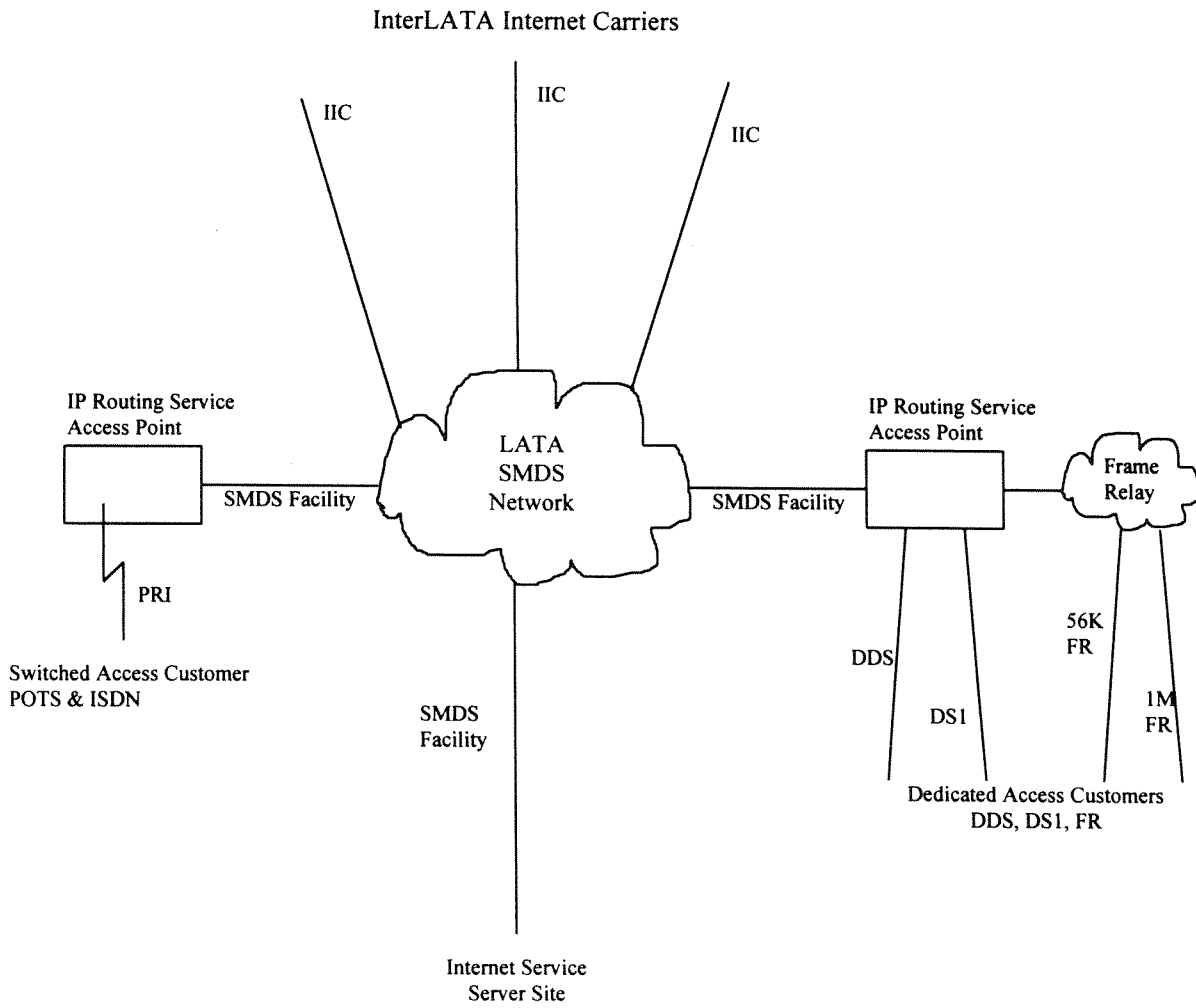
Bell Atlantic’s Internet Access Service will afford residence and business users with a convenient and user-friendly way to connect to the Internet. Bell Atlantic will provide users with a full range of Internet and supporting services, including access to the World Wide

² Kata Swisher, AT&T’s Cyber Shadow, *Washington Post*, March 2, 1996.

³ Bell Atlantic will comply fully with any applicable provisions of law relating to interexchange information services and/or electronic publishing. The Commission’s Computer Inquiry II separate subsidiary rules are, however, more stringent than the applicable statutory provisions. Therefore, regardless of the applicability of other provisions of law, approval of this CEI plan is required to permit Bell Atlantic to engage in joint marketing and other integrated activities otherwise proscribed by the Commission’s Computer Inquiry II Rules, 47 C.F.R. § 64.702.

Figure 1

Bell Atlantic Internet Access Service



Web,⁴ access to Usenet,⁵ electronic mail, and chat services.⁶ Customers will be able to dial into Bell Atlantic's service using a standard seven or ten-digit number, or may obtain direct connection through private line or special access services. In either case, the customer, not Bell Atlantic, will subscribe to the telecommunications service connecting the customer to Bell Atlantic's Internet Access service.⁷

End user customers using switched access will be connected to a digital modem or ISDN access port at Bell Atlantic's premises. These modems and ports provide the customer with connection to a terminal router. After the customer has entered a valid identifying password, Bell Atlantic's processor will connect the call to the Internet. Once connected, the customer may navigate the Internet through browser software and an Internet gateway service to be provided by Bell Atlantic on an unregulated, unbundled basis. Browser services and software are also available from third parties. The browser software Bell Atlantic intends to offer will

⁴ The WWW is a hypertext-based multi-media system that enables end users to browse and access information on the Internet.

⁵ Usenet denotes a system for exchanging messages, called articles, arranged according to specific categories, called Newsgroups. Bell Atlantic will provide access to all Newsgroups found on the Internet and will, upon request, download selected Newsgroups to a customer's own server on a scheduled basis.

⁶ Chat services provide the capability to send and receive messages to and from a group of people who wish to communicate about a common topic.

⁷ Bell Atlantic's system will support local residence and business lines, Integrated Services Digital Network ("ISDN") service, Frame Relay, Switched Multi-megabit Data Service ("SMDS"), Digital Data Service ("DDS"), and high-capacity data services, such as DS1, DS3 and SONET.

allow easy access to the various Internet features through various search engines and to Bell Atlantic's Help Desk.

Dedicated access subscribers will be connected to the Internet service on a full-time basis and need not enter a password to access the Internet capabilities. These customers will have the option of obtaining from the Bell Atlantic browser gateway functions that are similar to those available to switched customers.

Bell Atlantic will utilize several tariffed services in provision of Internet Access Service, as shown in Attachment A. Most are services that have been tariffed and generally available for some years. The exception is Internet Protocol Routing Service ("IPRS"), for which Bell Atlantic's tariff filing is pending.⁸ This service combines SMDS with the widely-used Telecommunications Control Protocol/Internet Protocol ("TCP/IP"), which has been a network standard since the early 1980s. IPRS will allow Bell Atlantic to provide users with fast, efficient Internet access by facilitating data communications between various connections points of the SMDS network and across the Internet.⁹

Bell Atlantic will not transport in-region Internet traffic across LATA boundaries until Bell Atlantic obtains in-region interLATA relief, pursuant to the provisions of the Telecommunications Act of 1996. Internet traffic will be carried across LATA boundaries by interexchange service providers.

⁸ See Transmittal No. 855, filed Feb. 26, 1996, which appears in Attachment B. Bell Atlantic's letter informing enhanced service providers that this service is available for testing appears in Attachment C.

⁹ See Figure 1.

Bell Atlantic will also provide database providers with design and hosting services. The former, through which Bell Atlantic will assist information providers to design home pages and databases, are not connected to communications facilities and are, therefore, not enhanced services. Hosting services offer enhanced service providers with the ability to store Internet information, such as home pages, databases, bulletin boards, and other data on Bell Atlantic's processor, from which connection is provided into the Internet.

II. Compliance With CEI Requirements.

In its initial Computer Inquiry III Report and Order, the Commission specified the showings that must be made in a CEI plan.¹⁰ Bell Atlantic makes those showings below.

A. *Description of Service.*¹¹

Bell Atlantic proposes to offer the Internet Access Service and features described above. On a phased basis, these services will be made available in all in-region Bell Atlantic jurisdictions. While not currently planned, Bell Atlantic may extend such offerings out-of-region in the future.

¹⁰ *Amendment of Section 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Report and Order*, 104 F.C.C.2d 958 (1986) ("R&O").

¹¹ *Id.* at ¶¶ 190-91.

B. *Interface Functionality.*¹²

All Internet access providers, including Bell Atlantic, may connect to Bell Atlantic's basic network through standard, disclosed, network interfaces. No special interfaces, signaling, abbreviated dialing, or other unique capabilities will be provided to end users, to any Internet access provider, or to other vendors in support of the enhanced services described in this plan. Any new interfaces that may be introduced in the future will be disclosed in advance, as required under the Commission's Network Disclosure requirements.

C. *Unbundling of Basic Services.*¹³

The underlying basic services, listed in Attachment A, are all offered on an unbundled basis from each other and from Bell Atlantic's proposed enhanced service. All basic services are available to competing enhanced service providers under the same rates, terms and conditions as they are available to Bell Atlantic's enhanced service.

D. *Resale.*¹⁴

Bell Atlantic will purchase all underlying basic services, add the Internet access enhancements, and provide the resulting enhanced service on an unregulated basis.

¹² *Id.* at ¶ 157.

¹³ *Id.* at ¶ 158.

¹⁴ *Id.* at ¶ 159.

E. **Technical Characteristics.**¹⁵

Bell Atlantic will provide facilities that are comparably efficient in type, quality and all technical parameters to both affiliated and unaffiliated enhanced service providers. All enhanced service providers will interconnect with Bell Atlantic's underlying basic services through standard interfaces.

F. **Installation, Maintenance and Repair.**¹⁶

The procedures for ordering, installing, maintaining and repairing underlying basic services will be identical for affiliated and unaffiliated enhanced service providers. The procedures ensure that there can be no discrimination in response or intervals for these functions.¹⁷

G. **End User Access.**¹⁸

End user customers will be able to access the services of both affiliated and unaffiliated enhanced service providers through Bell Atlantic's basic services in the same manner. All enhanced service providers will have an equal ability to provide end users with the

¹⁵ *Id.* at ¶ 160.

¹⁶ *Id.* at ¶ 161.

¹⁷ The Commission has approved Bell Atlantic's nondiscrimination procedures in *Filing and Review of Open Network Architecture Plans, Memorandum Opinion and Order*, 4 FCC Rcd 1, ¶¶ 468-70 (1988).

¹⁸ R&O at ¶ 162.

access arrangements of their choosing. No abbreviated dialing or special derived channel access arrangements are associated with Bell Atlantic's Internet Access Service offering.

H. *CEI Availability*.¹⁹

All underlying basic services will be available to both affiliated and unaffiliated enhanced service providers at the same time in any given geographical service area. As shown in Attachment C, Bell Atlantic has informed unaffiliated enhanced service providers that IPRS is available for testing prior to the tariff effective date.

I. *Minimization of Transport Costs*.²⁰

The Commission has held that this condition is satisfied where, as here, affiliated and unaffiliated enhanced service providers are charged the same rate for all underlying basic services.²¹

¹⁹ *Id.* at ¶ 163.

²⁰ *Id.* at ¶ 164.

²¹ *Amendment of Section 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Memorandum Opinion and Order (Phase II Reconsideration Order)*, 3 FCC Rcd 1150, ¶¶ 32-34 (1988).

J. Recipients of CEI.²²

All of the underlying basic services that Bell Atlantic will use to provide its Internet Access Service are available to all users for any lawful purpose.

K. Allocation of Joint and Common Costs.²³

Joint and common costs will be allocated pursuant to Bell Atlantic's Cost Allocation Manual.

L. Sample Tariffs.²⁴

Attachment B contains Bell Atlantic's IPRS transmittal and tariff pages. Tariff pages for all other underlying basic services have been submitted in connection with earlier plans.²⁵

²² R&O at ¶ 165.

²³ *Id.* at ¶¶ 234-240.

²⁴ *Id.* at ¶ 190.

²⁵ Tariff pages for these other services will be resubmitted on request.

*M. Nondiscrimination Reporting,*²⁶ *Network Interface Disclosure,*²⁷ *and Customer Proprietary Network Information.*²⁸

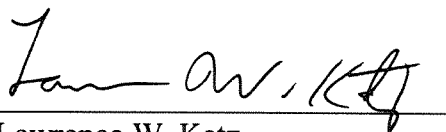
Bell Atlantic will continue to comply fully with the existing, and any revised, requirements regarding these nonstructural safeguards.

Accordingly, Bell Atlantic requests approval of this plan to provide comparably efficient interconnection and permission to provide enhanced Internet Access Service on a structurally unseparated basis.

Respectfully submitted,

**The Bell Atlantic Telephone
Companies**

By Their Attorney



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March 8, 1996

²⁶ R&O at ¶ 192.

²⁷ *Id.* at ¶ 252.

²⁸ *Id.* at ¶ 265.

Underlying Basic Services

Bell Atlantic will use the following underlying basic services in provision of its enhanced

Internet Access Service:

Switched Multi-Megabit Data Service (SMDS)

DC - P.S.C. - D.C. No. 203, Section 15

DE - This service is classified as "discretionary" and not
tariffed under Delaware law.

MD - P.S.C. - Md. No. 203, Section 15

PA - Pa. P.U.C. No. 1, Section 20F

VA - S.C.C. - Va. No. 203, Section 15

WV - P.S.C. No. 203, Section 15

Interstate - F.C.C. No. 1, Sections 7, 16

*Note: Internet Protocol Routing Service, which has only interstate applicability,
will appear in Section 16 of Tariff F.C.C. No. 1. See Attachment 2.*

Frame Relay Service

DC - P.S.C. - D.C. No. 203, Section 15B

MD - P.S.C. - Md. No. 203, Section 15B

PA - Pa. P.U.C. No. 1, Section 20G

VA - S.C.C. - Va. No. 203, Section 15B

WV - P.S.C. - W.Va. No. 203, Section 15B

Interstate - F.C.C. No. 1, Sections 7, 16

Integrated Services Digital Network Service (ISDN)

Basic Rate Interface

DC - P.S.C. - D.C. No. 203, Section 14A
DE - P.S.C. - Del. No. 1, Section 10A
MD - P.S.C. - Md. No. 203, Section 14A
NJ - B.P.U. - N.J. No. 2, Section A5
PA - Pa. P.U.C. No. 1, Section 21E
VA - P.S.C. - Va. No. 203, Section 14A
WV - P.S.C. - W.Va. No. 203, Section 14A

Primary Rate Interface

DC - P.S.C. - D.C. No. 203, Section 14
DE - P.S.C. - Del. No. 1, Section 10B
MD - P.S.C. - Md. No. 203, Section 14
NJ - B.P.U. - N.J. No. 2, Section A5
PA - Pa. P.U.C. No. 1, Section 21D
VA - P.S.C. - Va. No. 203, Section 14
WV - P.S.C. - W.Va. No. 203, Section 14

End users may reach Bell Atlantic's enhanced service by using nearly any available state or interstate switched or dedicated access arrangement, including, but not limited to, business and residence local exchange service, private line service, switched and special access service, ISDN, Frame Relay Service, Digital Data Service, and SMDS.

ATTACHMENT B

Transmittal No. 855

Internet Protocol Routing Service

Bell Atlantic Network Services, Inc.
One Bell Atlantic Plaza
1310 North Court House Road
4th Floor
Arlington, Virginia 22201
703 974-5995
FAX 703 974-0780

Michael R. McCullough
Director, Rates & Tariffs
External Affairs

February 26, 1996

Transmittal No. 855

William F. Caton
Acting Secretary
Federal Communications Commission
Washington, D.C. 20554

Attention: Common Carrier Bureau

The accompanying tariff material, issued by The Bell Atlantic Telephone Companies and bearing Tariff F.C.C. No. 1, Access Service, is sent to you for filing in compliance with the requirements of the Communications Act of 1934, as amended. This material, filed on forty-five days' notice, is scheduled to become effective April 11, 1996 and consists of tariff pages as indicated on the following check sheets:

Tariff F.C.C. No. 1

Check Sheet Revision No.

805th Revised Page 1

78th Revised Page 1.12

In this filing, Bell Atlantic introduces a new Packet Data Service offering, IP (Internet Protocol) Routing Service (IPRS). IPRS provides traffic and data collection for routing over Exchange Access Switched Multi-Megabit Service (XASMDS). Reference to technical publishing in this filing is made under authority of Special Permission No. 96-178 of the Federal Communications Commission.

Support information as specified in Section 61.49 of the Commission's Rules is included with this filing.

An amount of \$565.00 has been electronically transmitted to the Mellon Bank in Pittsburgh, Pennsylvania in accordance with the fee program procedures.

The original of this transmittal letter is being delivered today to the Secretary. In addition, copies of this transmittal have been hand-delivered today to the commercial contractor and the Chief, Tariff Review Branch.

Acknowledgement and date of receipt of this filing are requested. A duplicate letter of transmittal is attached for this purpose.

All correspondence and inquiries in connection with this filing should be forwarded to Patricia Koch, Assistant Vice President, External Affairs and Regulatory Relations, at 1133 20th Street, N.W., 8th Floor, Washington, D.C. 20036.

Michael R. McCullough (x)

Attachments to the Original:

Payment Fee
F.C.C. Form 159

Attachments to the Copies:

Duplicate Letter
Tariff Pages
Support Documentation.

ACCESS SERVICE CHECK SHEET

Title Pages 1 and 2 and Pages 1 to 980 inclusive of this tariff are effective as of the date shown. Original and revised pages as named below and Supplement Nos. 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 148, 149, 150, 151, 152, 153, 154, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, and 179 contain all changes from the original tariff that are in effect on the date hereof.

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
Title 1	3rd	16	5th	43.1	Original
Title 2	2nd	17	7th	44	5th
1	805th*	18	13th	45	2nd
1.1	178th	18.1	Original	46	Original
1.2	139th	19	10th	47	3rd
1.2.1	30th	20	16th	47.1	2nd
1.3	206th	20.1	6th	47.2	2nd
1.4	128th	20.2	5th	48	2nd
1.4.1	18th	20.3	6th*	49	1st
1.5	122nd	21	2nd	50	1st
1.6	77th	22	Original	51	9th
1.7	43rd	23	1st	51.1	Original
1.8	165th	24	7th	52	6th
1.9	72nd	25	Original	53	16th
1.10	47th	26	Original	53.1	5th
1.11	21st	27	2nd	53.2	1st
1.12	78th*	28	2nd	53.3	Original
1.13	38th	28.1	Original	54	4th
2	Original	29	2nd	55	Original
3	4th	30	Original	56	3rd
4	8th	31	Original	56.1	7th
5	10th	32	Original	57	16th
6	8th	33	Original	57.1	5th
6.1	6th	34	Original	58	13th
6.2	2nd	35	9th	59	9th
7	11th	35.1	2nd	60	12th
8	10th	36	3rd	61	7th
9	11th	37	7th	62	7th
10	18th	38	1st	62.1	5th
11	19th	39	10th	63	7th
12	3rd	39.1	9th	64	Original
13	2nd	40	3rd	65	4th
14	5th	41	8th	66	2nd
15	2nd	41.1	2nd	67	7th
15.1	5th*	42	6th	67.1	2nd
15.2	2nd	43	2nd	68	2nd
				69	6th

(This page filed under Transmittal No. 855)

ACCESS SERVICE CHECK SHEET (Cont'd)

<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>	<u>Page</u>	<u>Number of Revision Except as Indicated</u>
889	5th	903.16	Original	918.1	8th
889.1	Original	903.17	1st	918.2	8th
890	4th	903.18	Original	918.3	10th
890.1	2nd	903.19	Original	918.3.1	1st
890.2	3rd	903.20	1st	918.4	8th
890.3	2nd	903.21	Original	918.5	8th
890.4	16th	903.22	1st	918.5.1	2nd
890.5	4th	903.23	Original	918.5.2	1st
890.6	3rd	903.24	Original	918.6	15th
890.7	1st	903.25	Original	918.6.1	2nd
890.8	1st	903.26	Original	918.7	9th
890.9	1st	903.27	Original	918.7.1	2nd
890.10	1st	903.28	1st	918.8	9th
890.11	1st	903.29	1st	918.9	7th
890.12	2nd	904	2nd	918.9.1	3rd
890.13	Original	904.1	2nd	918.9.2	Original
891	Original	904.2	1st	918.9.3	Original
892	Original	905	6th	918.9.4	Original
893	Original	906	5th	918.10	12th
894	Original	907	3rd	918.11	3rd
895	Original	908	7th	918.12	3rd
896	Original	908.1	6th	918.13	3rd
897	Original	909	8th	918.14	3rd
898	1st	909.1	2nd	918.15	3rd
899	Original	910	3rd	918.16	4th
900	Original	911	5th	918.17	3rd*
901	Original	911.1	4th	918.18	2nd*
902	Original	911.2	2nd	918.19	2nd*
903	Original	911.3	3rd	918.20	Original*
903.1	1st	912	8th	918.21	Original*
903.2	3rd	912.1	3rd	918.22	Original*
903.3	3rd	913	6th	919	2nd
903.4	Original	914	6th	920	Original
903.5	Original	915	7th	921	Original
903.6	1st	916	12th	922	15th
903.7	1st	916.1	10th	923	13th
903.8	Original	916.2	10th	943	9th
903.9	Original	916.3	7th	944	11th
903.10	Original	916.4	3rd	945	5th
903.11	Original	917	7th	946	6th
903.12	1st	917.1	11th	947	8th
903.13	1st	917.2	7th	948	7th
903.14	Original	917.3	2nd	949	6th
903.15	Original	918	9th		

(This page filed under Transmittal No. 855)

*New or Revised Pages

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Effective: April 11, 1996

Edward D. Young, III, Vice President
1310 North Court House Road, Arlington, Virginia 22201

ACCESS SERVICE

TABLE OF CONTENTS (Cont'd)

	<u>Page No.</u>	
16. <u>PACKET DATA SERVICES</u>		
16.1 <u>Public Data Network (PDN)</u>		
16.1.1 General	905	
16.1.2 Provisions and Description of Customer Access	912	
16.1.3 Rate Regulations	915	
16.1.4 Rates and Charges	916	
16.2 <u>Exchange Access Switched Multi-Megabit Data Service (XASMDS)</u>		
16.2.1 General	918.1	
16.2.2 Rate Categories	918.5	
16.2.3 Rates and Charges	918.6	
16.3 <u>Exchange Access Frame Relay</u>		
16.3.1 General	918.7	
16.3.2 Rate Regulations	918.9	
16.3.3 Rates and Charges	918.10	
16.4 <u>Full Fiber Distributed Data Interface</u>		
16.4.1 Service Description	918.11	
16.4.2 Technical Specifications	918.11	
16.4.3 Definitions	918.11	
16.4.4 Terms and Conditions	918.12	
16.4.5 Rate Regulations	918.13	
16.4.6 Prepayment Option	918.15	
16.4.7 Rates and Charges	918.16	
16.5 <u>IP (Internet Protocol) Routing Service</u>		(N)
16.5.1 Service Description	918.17	
16.5.2 Technical Specifications	918.17	
16.5.3 Terms and Conditions	918.18	
16.5.4 Rate Regulations	918.19	
16.5.5 Rate Categories	918.20	
16.5.5 Rates and Charges	918.21	(N)

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ACCESS SERVICE

REFERENCE TO TECHNICAL PUBLICATIONS AND INFORMATION PUBLICATIONS (Cont'd)

from Bell Atlantic Carrier Access Services, 1320 N. Court House Road,
Arlington, VA 22201

Bell Atlantic Information Pub. IP 72200	Issued: March 1990
Bell Atlantic Information Pub. IP 72013	Issued: March 1990
Cable Splicing Handbook	Issued: December 3, 1991
Cable Placing Handbook	Issued: December 3, 1991
Cable Maintenance Handbook	Issued: December 3, 1991
General Information Tools & Safety Manual	Issued: December 3, 1992
Building Owners and Managers Association International Standards (BOMA)	Issued: December 3, 1992

The following publications are referenced in this tariff and may be obtained
from the American National Standards Institute (ANSI), 11 West 42nd Street,
New York, New York 10036.

T1.606	Issued: 1990
T1.606, Addendum 1	Issued: 1991
T1.606a	Issued: 1992
T1.617, Annex D	Issued: 1992
T1.606b	Issued: 1993
T1.105	Issued: 1991
X3.139	Issued: 1987
X3.148	Issued: 1988
X3.184	Issued: 1993
X3.229	(Draft)

The following publication is referenced in this tariff and may be obtained
from the International Telecommunications Union - Telecommunications
Standardization Sector (ITU-TSS), Vienna, Virginia.

H.320 series Standards for Audio Visual Communications over Narrowband
Digital Networks.

The following publication is referenced in this tariff and may be obtained
from the Internet Engineering Task Force (IETF) at Corporation for National
Research Initiatives, Attn: Accounting Department - IETF Proceedings, 1895
Preston White Drive, Suite 100, Reston, VA 22091.

RFC 1880: Internet Official Protocol Standards, J Postel, Editor, Issued
November 1995.

INTERNET DRAFT, Remote Authentication Dial-In User Service (RADIUS); C
Rigney, Livingston Enterprises, Inc., issued November 1995.

(N) (X)

(N) (X)

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

(T)

16.5 IP (Internet Protocol) Routing Service

(N)

16.5.1 Service Description

Bell Atlantic's IP (Internet Protocol) Routing Service, IPRS, provides for the collection, concentration and management of the customers traffic within a LATA. IP Routing Service consists of network routers located at LATA hub sites that will collect the customer's end user traffic and concentrate it for connection and transport over a Bell Atlantic Exchange Access Switched Multi-Megabit Data Service (XASMDS) Subscriber Network Interface. XASMDS is described in full in 16.2 preceding.

IP Routing Service provides six types of ports for the collection of end user traffic. The port type(s) is/are determined by the method(s) chosen by the customer for access to its end user(s). The six port types are 1) Analog dial-up, 2) Integrated Services Digital Network (ISDN) dial-up, 3) Digital Data Service (DDS), 4) DSL, and 5 & 6) 56 kbps and 1.544 Mbps Frame Relay. The two dial-up port types will only support a single host computer, and are not intended for Local Area Network (LAN) usage.

IP Routing Service does not include the end user access service. End user services and facilities are available from this and other public telephone network tariffs.

IP Routing Service requires the use of RADIUS (Remote Authentication Dial-In User Service), a network security protocol, for the customer's authentication and authorization of its dial-up end user(s). See 16.5.2 following for technical reference.

16.5.2 Technical Specifications

(X)

IP Routing Service is provided in compliance with standards established by the Internet Activity Board as stated in the following publications:

RFC 1880, Internet Official Protocol Standards; J Postel, Editor, issued November 1995.

INTERNET DRAFT, Remote Authentication Dial-In User Service (RADIUS); C Rigney, Livingston Enterprises, Inc., issued November 1995.

(N) (X)

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1310 North Court House Road, Arlington, Virginia 22201

ACCESS SERVICE

16. Packet Data Services (Cont'd) (T)

16.5 IP (Internet Protocol) Routing Service (Cont'd) (N)

16.5.3 Terms and Conditions

- (A) IPRS is only available to purchasers of Bell Atlantic's XASMDs Subscriber Network Interface (SNI) service as XASMDs provides the access transport between customer and end user.

One IPRS port is assigned per SNI.

- (B) IPRS is a hubbed service. At least one wire center in each LATA is designated as a IPRS Hub. Customers' end users who use dedicated access must order their DDS or DS1 Special Access service to the customer's port in the IPRS LATA Hub. Hub sites are listed in (F) following.

- (C) IPRS LATA hubs are listed below:

<u>LATA</u>	<u>HUB Wire Center</u>
Washington	Arlington
Baltimore	Columbia
Roanoke	Roanoke
Salisbury	Salisbury
Culpepper	Fredericksburg
Hagerstown	Hagerstown
Philadelphia	Conshohocken
Delaware Valley	Collingswood
Atlantic Coastal	Ocean City
Capital	Harrisburg
Northeast	Scranton
North Jersey	New Brunswick
Pittsburgh	Downtown
Altoona	Altoona
Norfolk	Aberdeen
Clarksburg	Clarksburg
Charleston	Charleston
Richmond	Chester
Lynchburg	Church Street

- (D) IPRS is available for commitment periods of 1 year, 3 and 5 years.
- (E) IPRS is provided on a negotiated service date interval.
- (F) IPRS is monitored and maintained 24 hours-a-day 7 days-a-week for trouble isolation and resolution. (N)

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Vice President
1310 North Court House Road, Arlington, Virginia 22201

ACCESS SERVICE

16. Packet Data Services (Cont'd)

(T)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

(N)

16.5.3 Terms and Conditions (Cont'd)

(G) IPRS's deployment schedule is as follows:

<u>LATA</u>	<u>Date</u>
Washington	April 1996
Baltimore	July 1996
Roanoke	July 1996
Philadelphia	August 1996
North Jersey	September 1996
Pittsburgh	October 1996
Norfolk	December 1996
Delaware Valley	December 1996
Atlantic Costal	December 1996
Harrisburg	December 1996
Northeast	January 1997
Salisbury	February 1997
Culpepper	February 1997
Hagerstown	February 1997
Altoona	March 1997
Clarksburg	April 1997
Charleston	April 1997
Richmond	May 1997
Lynchburg	May 1997

(N)

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ACCESS SERVICE

16. Packet Data Services (Cont'd) (T)

16.5 IP (Internet Protocol) Routing Service (Cont'd) (N)

16.5.4 Rate Regulations

- A) All rate categories are billed monthly.
- B) Nonrecurring charges apply for the installation of each port. Changes in port from one rate category to another incur the nonrecurring charge; a nonrecurring charge is not applicable for a change in speed of a IPRS DDS Port. For certain port types, the nonrecurring charge is reduced for each additional port ordered of the same type on the same service order at the same hub with same date due as the first installation.

A conversion of service to a new commitment period of equal or greater length than the remainder of the existing term does not incur nonrecurring charges for the existing port.

- C) When the customer's commitment period ends, prevailing rates apply.
- D) Termination liability applies when a port is disconnected prior to the end of the selected commitment period. Liability is assessed as follows:

1-year Term: The customer is responsible for 100% of the monthly rates for the entire commitment period.

3 and 5-year Terms: The customer is responsible for 100% of the monthly rate for the first 12 months and 15% of the remaining monthly charges.

Termination liability is waived if a port is converted to another term of equal or greater value in revenue than the remainder of the present term.

Termination liability is waived when a customer replaces one port for another type and commits to a term of equal or greater value in revenue than the remainder of the current commitment. The replacement is subject to applicable nonrecurring charges.

- E) If the customer's recurring rate increases, the customer may discontinue service without liability. (N)

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

(N)

16.5.5 Rate Categories

- A) IPRS Analog Dial-up Port: provides a minimum of 23 calling paths in a customer designated local calling area for analog dial-up access to the customer by the customer's end users, and the IP routing of the end user data to the customer.
- B) IPRS ISDN Dial-up Port: provides a minimum of 23 calling paths in a customer designated local calling area for ISDN Primary Rate (PRI) dial-up access by the customer's end users, and the IP routing of the end user data to the customer.
- C) IPRS Digital Data Service Port: provides IP routing of end user data terminated at a DDS speed of either 2.4, 4.8, 9.6, 19.2, 56, or 64 kbps.
- D) IPRS DS1/1.544 Mbps Port: provides connection and IP routing of end user data terminated at a speed of 1.544 Mbps.
- E) IPRS Frame Relay Service (FRS) 56 kbps Port: Provides connection and IP routing of end user data terminated over frame relay facilities at a speed of 56 kbps.
- F) IPRS Frame Relay Service (FRS) DS1/1.544 Mbps Port: Provides connection and IP routing of end user data terminated over frame relay facilities at a speed of 1.544 Mbps.

(N)

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ACCESS SERVICE

16. Packet Data Services (Cont'd)

(N)

16.5 IP (Internet Protocol) Routing Service (Cont'd)

16.5.6 Rates and Charges
- per port

Port Category	USOC	Monthly Rate	Nonrecurring Charges	
			First	Additional
A) Analog Dial-up	PRLAX			
1-year Term		\$2,250.00	\$800.00	\$600.00
3-year Term		\$1,800.00	\$800.00	\$600.00
5-year Term		\$1,725.00	\$800.00	\$600.00
B) ISDN Dial-up	PRLBX			
1-year Term		1,500.00	\$800.00	600.00
3-year Term		1,250.00	800.00	600.00
5-year Term		1,150.00	800.00	600.00
C) DDS	PRLDX			
1-year Term		80.00	40.00	N/A
3-year Term		60.00	40.00	N/A
5-year Term		50.00	40.00	N/A
D) DS1 (1.544 Mbps)	PRL1X			
1-year Term		450.00	200.00	N/A
3-year Term		350.00	200.00	N/A
5-year Term		330.00	200.00	N/A
E) FRS 56 kbps	PRLEX			
1-year Term		45.00	200.00	N/A
3-year Term		30.00	200.00	N/A
5-year Term		28.00	200.00	N/A
F) FRS 1.544 Mbps	PRLFX			
1-year Term		650.00	500.00	N/A
3-year Term		550.00	500.00	N/A
5-year Term		500.00	500.00	N/A

(N)

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ATTACHMENT C

All Enhanced Service Providers Letter

Bell Atlantic Network Services, Inc.
Two Bell Atlantic Plaza
1320 North Court House Road
Ninth Floor
Arlington, Virginia 22201

Carrier Services

March 8, 1996

To All Enhanced Service Providers -- Letter #96-003:

SUBJECT: NOTICE OF AVAILABILITY OF INTERNET PROTOCOL ROUTING SERVICE AND RING COUNT CHANGE INTERFACE

On February 26, 1996 Bell Atlantic filed a tariff under transmittal number 855 introducing a new packet data service offering, Internet Protocol Routing Service (IPRS). IPRS provides a collection of data traffic for routing over exchange access Switched Multi-Megabit Service for use in connection with enhanced Internet Access Services. IPRS provides six types of ports to collect end user traffic. The ports are analog dial-up, ISDN dial-up, Digital Data Service (DDS), DS1, and 56 Kbp and 1.544 Mbs Frame Relay. IPRS does not include the end user access service which is purchased separately from existing public telephone network tariffs.

The service will be available for commercial use on the following LATA schedule:

Washington DC	April 1996	Northeast PA	January 1997
Baltimore MD	July 1996	Salisbury MD	February 1997
Roanoke VA	July 1996	Culpepper VA	February 1997
Philadelphia PA	August 1996	Hagerstown MD	February 1997
North Jersey NJ	September 1996	Altoona PA	March 1997
Pittsburgh PA	October 1996	Clarksburg WV	April 1997
Norfolk VA	December 1996	Charleston WV	April 1997
Delaware Valley DE	December 1996	Richmond VA	May 1997
Atlantic Coastal NJ	December 1996	Lynchburg VA	May 1997
Harrisburg PA	December 1996		

Enhanced Service Providers who wish to test the service on a non-commercial basis should contact Ken Ballo, Applications Manager, Bell Atlantic Large Business Services on 412 633-2388. Such testing will use existing, tariffed Switched Multi-Megabit Data Services (SMDS), IPRS, and end user services.

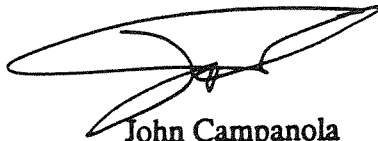
In addition, Bell Atlantic has updated its previous announcement of the availability of Ring Count Change Interface (RCCI), a Complementary Network Service. Bell Atlantic announced plans to introduce this feature in the September 1994 Bellcore Digest. As specified in that notice, documentation of the interface specifications appears in Bell Atlantic Document No. IP72210, which may be obtained from Bell Atlantic's Document Coordinator, 1320 North Court House Road (3E-11), Arlington, VA 22201, telephone (703) 974 4137 or 4138. RCCI enables subscribers to Bell Atlantic's Fixed Call Forwarding service (also called Call Forward Busy Line/Don't Answer) to change the number of rings on a no-answer situation before a call is forwarded to the designated number.

Page Two

RCCI provides a means by which a voice messaging provider can initiate the ring count change on behalf of voice messaging customers. The voice messaging platform, upon the customer's instruction, transfers the customer's ring count information to the Bell Atlantic Multi-Services Platform.

RCCI is currently available under tariff in all Bell Atlantic jurisdictions except New Jersey and Washington DC, where tariffs are pending. Additional information may be obtained by contacting Thadius Nesbitt, Ring Count Change Interface Product Manager on 215 466-8037.

Sincerely,

A handwritten signature in black ink, appearing to read 'John Campanola', with a large, sweeping flourish extending to the right.

John Campanola
Director

CK444