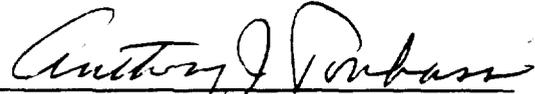


industry fora. The "IILC Issues and Related Activity Report"^{10/} submitted by Bellcore at each IILC meeting could serve as a vehicle to track the #026 issues if it were properly focussed and more inclusive. This "Issues Report," in its present form, however, is insufficient because it covers a hodge-podge of regulatory policy activities, rather than focussing on the technical issues related to ONA and network unbundling that the IILC is supposed to address. The six #026 issues that have been submitted to the IILC appear in the Issues Report, but none of the other 44 is included. That convenient omission avoids any public reminder of the lack of BOC activity on those issues. None of the BOCs that actively participated in the #026 Task Group have come forward with any submissions to industry standards bodies in an attempt to expedite resolution of those issues. A bare listing of the other 44 #026 issues in the Issues Report -- revealing a lack of activity -- no doubt would have been more embarrassing for the BOCs, but it would be a useful first step in tracking the progress, or lack thereof, on each of those issues.

10. Thus, the fate of the remaining issues is undetermined at this point. The newly created issues could be used by the BOCs to delay unbundling of their network to potential competitors. The fact remains that even if the targeted industry

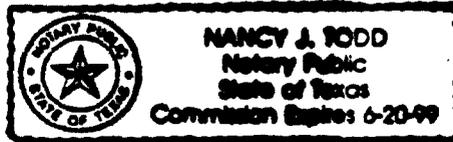
^{10/} See Exhibit C, "IILC Issues and Related Activity Report", September 22, 1995.

fora start to deal with the relevant #026 issues, it will be practically impossible for the IILC in its present structure to manage such an activity, and it will take years before any #026 level of open network materializes.^{21/} This is precisely why a national policy for an #026 unbundling is called for, in order for the ESPs and the network providers to attain access to an unbundled local network and also reach an achievable level of national uniformity.


Anthony J. Toubassi

Subscribed and sworn to before me
this 24th day of April, 1996


Notary Public



^{21/} The IILC structure could be changed to enable it to manage such a task if the dominant LECs allowed it.

EXHIBIT A

Before the
FEDERAL COMMUNICATIONS COMMISSION
Washington, DC 20554

In the Matter of:)
)
)
Request for Part 69 Waiver of)
BellSouth Telecommunications, Inc.)

Comments of MCI

MCI Telecommunications Corporation (MCI) hereby submits its comments on the Petition for Waiver filed on December 8, 1995 by BellSouth Telecommunications, Inc. (BellSouth). Because there are customer requests for the optional services BellSouth seeks to offer, and because BellSouth's proposal does not appear to favor one third party, MCI does not oppose grant of this waiver. However, MCI urges the Commission expeditiously to complete the Advanced Intelligent Network (AIN) rulemaking (CC Docket No. 91-346) so that full AIN network unbundling can take place.

I. BACKGROUND

BellSouth's Part 69 waiver proposes to allow third parties access to its Service Management System (SMS) Interface, which BellSouth claims will allow third parties to create their own AIN-based services. BellSouth would give third parties access to Advanced Intelligent Network (AIN) signaling

messages through this SMS interface and through a software package, the Basic AIN Programmability (BAP) tool kit.

BellSouth proposes several non-recurring charges (NRCs) and recurring charges. The proposed NRCs are for service establishment, employee training, setting up the AIN platform to accept the third parties' programming, and establishing triggers on end users' lines within the AIN switch.¹ The recurring charges recover the costs of the maintenance of both the triggers and secure access codes, and for ports, query response/transport, programming access, and data storage. There will also be optional charges for any special reports third parties want.

BellSouth also seeks a waiver to allow it to offer several AIN-based services it is developing using the BAP. This includes several Feature Group A (FGA) options, such as emergency service rearrangement, offnet access to private networks, and LATA-wide access to enhanced service provider (ESP) data networks, Feature Group D (FGD) options, such as originating switched access to Virtual Private Networks, and reverse PIC selection and billing for calls to a dedicated NXX-NPA,² and 800 service options, such as connecting

¹ Triggers are interruptions in the processing of AIN calls which instruct the AIN switch to query a network element database for further instructions to complete call processing.

² Under this option, calls to a dedicated NPA-NXX will be carried by the interexchange carrier (IXC) selected by the called party, and billed to the called party.

a local phone number to an 800 number, so the 800 service company will look like a local company to the calling party. Bell South states that it will impute the BAP and SMS charges it will assess on third parties in developing the access rates for the AIN-based services BellSouth itself will offer.

II. THE UNBUNDLING OFFERED IN BELLSOUTH'S PETITION DOES NOT REPRESENT THE FULL UNBUNDLING PARTIES NEED

Although MCI views BellSouth's petition as a positive first step, the FCC should not confuse BellSouth's action with true network unbundling. The BellSouth petition proposes only a small part of the network unbundling interfaces requested by MCI and other parties in CC Docket 91-346, and does not provide the prioritized interfaces requested by the industry at the Industry Information Liaison Committee (IILC) in Issue 026.³ For example, IILC Issue 026 specifies twelve logical interconnections, while the BellSouth petition would open only two interconnections to third party providers, namely, access to the Service Creation Environment (SCE) and access to the SMS, which reside on the BellSouth platform. The other logical interconnection points requested by the industry in a survey conducted by the IILC are not included in the BellSouth petition.

³ See, e.g., MCI's Comments in CC Docket No. 91-346, filed November 1, 1993.

III. THE DEGREE OF UNBUNDLING OF THE NETWORK MUST NOT BE CONTROLLED BY ONLY ONE PARTY

BellSouth's petition does not provide full technical details on its proposal. For example, BellSouth mentions in its waiver petition call processing based on calling party number, called number and billed number protocol parameters. However, BellSouth makes no mention of how its AIN architecture would be usable to make use of calling party name or allow access to "Name" data bases, to facilitate third party services and capabilities for which BellSouth as an AIN service provider already has access. This will discriminate against those third party providers needing access to such data bases.

Examples such as this one highlight a concern MCI has with regard to BellSouth's petition. In an ex parte in CC Docket No. 93-146, several local exchange carriers (LECs) proposed an Industry Intelligent Network Project, citing several issues that needed to be resolved by the industry, such as Uniformity, Feature Interaction Management, and Multi-Provider Management.⁴ In its comments on that ex parte, MCI raised additional issues that needed to be addressed, such as the need for a standard AIN interconnection architecture and protocols, and the participation of all providers (LECs, IXCs, and others) in testing and development of the mediation software prior to its

⁴ See LEC Proposal for an Industry Intelligent Network Project, filed on June 23, 1995, in CC Docket No. 91-346, by Bell Atlantic, GTE, Pacific Bell, Southwestern Bell, and five other LECs.

installation in the network.⁵ BellSouth's waiver petition proposes to offer the AIN capabilities that BellSouth chooses to offer, rather than the capabilities the industry might find most useful. The danger of this piecemeal roll-out of AIN capabilities is that BellSouth may roll out those AIN functions that will be most useful to it rather than to other interested parties, conferring an unwarranted competitive advantage on BellSouth. The Commission must ensure that AIN is developed with input from all interested parties, rather than determined by the decisions of only one of the affected parties.

⁵ See Ex Parte Letter from Chris Frentrup, MCI Telecommunications Corporation, to William F. Caton, Acting Secretary, Federal Communications Commission, filed July 19, 1995 in CC Docket No. 91-346.

IV. CONCLUSION

Although BellSouth's waiver petition represents a small first step towards AIN, the Commission should not confuse this proposal with true network unbundling. The Commission must provide the direction to achieve actual unbundling with input from all interested parties.

Respectfully submitted,

**MCI TELECOMMUNICATIONS
CORPORATION**

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1801 Pennsylvania Ave., NW
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December 18, 1995

EXHIBIT B

Section 5d

*Issues Associated with Non-LEC
Requests*

THIS DOCUMENT REPRESENTS A CONSENSUS OF THE
ISSUE 026 TASK GROUP
AND HAS RECEIVED IILC APPROVAL.

ISSUES ASSOCIATED WITH LONG TERM UNBUNDLING AND NETWORK EVOLUTION

FOREWORD

As the telecommunications industry anticipates an extensively interconnected national network architecture, issues surrounding the evolution of that architecture must be identified, addressed and resolved to ensure that the public interest will continue to be served. In addition, historic network reliability and efficiencies must at least be maintained, if not enhanced, to preserve security and reliability and to protect customer and end user interests. Finally, the public switched network should continue to evolve in a cost-effective manner to encourage the application of available technologies and foster market-driven competition, thereby affording the marketplace the broadest possible range of products and services.

In an effort to assess the scope of long term unbundling and network evolution, the Task Group has identified two types of industry requests: logical and physical. Within the framework of the two request types, these issues have been categorized as follows:

Physical Request Issues

- Technical/Operational Standards

Logical Request Issues

- Technical/Operational Standards
- Mediation

Public Policy Issues

The Task Group has not prioritized the identified issues in any manner and acknowledges that the specific issues to be resolved within each category can and do overlap. Further, the Task Group recognizes that many of the identified issues are similar in nature to those being addressed by various fora and in regulatory proceedings.

Finally, recommendations have been made identifying the appropriate ATIS (Alliance for Telecommunications Industry Solutions) committees which the Task Group believes might best resolve the physical and logical issues. The committees which were identified as possible reference groups were the Standards Committee T1 - Telecommunications (T1), Network Operations Forum (NOF), Ordering and Billing Forum (OBF), and the Information Industry Liaison Committee (IILC).

There were two other categories of issues not deemed appropriate for referral to ATIS-sponsored groups. The first category of issues, the task group believes, is best resolved through mutual negotiations between the involved parties on an Individual Case Basis (indicated by "ICB"). The second category, which applies to only one issue, needs to be determined by the party, whether LEC or Non-LEC, offering the access service or interconnection arrangement (indicated by LEC/Non-LEC).

Based upon input from interested parties, Public Policy issues may require coordination among various state and federal jurisdictions to assure consistent public policy.

PHYSICAL REQUEST ISSUES OVERVIEW

Issues associated with administering and implementing physical interconnection are identified in the section dealing with Technical/Operational Issues. Issues included in this section deal with how interconnecting companies will coordinate end user service provisioning through service orders, testing, trouble reports, assignment procedures and directory availability. Also identified are issues associated with "one-on-one" interfaces involved with the sharing of space, capacity planning, network survivability and operational support systems.

Standards issues identified with Physical Requests are discussed in a separate section. Some of these, such as transmission performance and SONET, are being addressed in current standards proceedings, but will require review to assure that the outcome of these proceedings includes reflection of a multi-provider environment. On the other hand, the Task Group identified the Serving Access Interface as a requested physical interconnection point where no standards work has been initiated to date.

PHYSICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Records</u>
T/O 1	Assignment and Inventory		
	A) Current availability of and accuracy in assignment records related to Service Access Interface (SAI)	1a, 1b	N
	1) Undocumented pair changes, etc.		
	2) Priorities of service restoral vs. record keeping		
	B) The viability of telephone-number-based loop assignment systems in a multi-provider environment may need to be examined.	1-3	N
T/O 2	Trouble Report Administration		
	A) No industry guidelines exist regarding how end users should report trouble where a single customer's service is provided by multiple service providers (i.e., Who receives the trouble?)	1-5, 12, 15	N
	B) Industry guidelines may need to be modified or developed for trouble report control and coordination among the service providers jointly providing service to a single end user.	All but 8, 16	N
	C) Industry guidelines for handling "network-initiated" troubles may need to be revised to accommodate an expanded multi-provider environment.		
	1) What types of tests are appropriate and how frequently should they be initiated?	1-5	N
	2) Who tests joint links?	1-3, 5	N
	D) Industry guidelines may need to be developed for cross-entity billing of trouble isolation and handling in a multi-provider environment.	All	I

NOTE The term "LEC" is used to indicate the existing local exchange network and services provider. "Non-LEC" refers to all other providers.

PHYSICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recomm</u>
T/O 3	Testing		
	A) Responsibilities are not assigned and procedures may not exist for isolating trouble in a multi-provider environment.		
	1) Can network indicators (such as 120 IPM, "fast busy") be developed and implemented which would aid in indicating the source of network congestion?	1-5,15	NOF
	2) Will loop testing functionality, test access and dispatch be required of all providers in a multi-provider environment?	1-5, 12,15	NOF
	3) How can testing be coordinated in situations such as an unattended central office?	All but 16	NOF
	4) Will provider personnel have access to other providers' trouble shooting equipment, such as the automatic number announcement circuit (ANAC) or telemetering equipment?	All	ICB
	5) Will test messages and/or signals be carried across networks? If so, how?	All but 16	NOF
	B) Separating the loop from the switch, or feeder loop plant from the distribution loop plant at the SAI will cause difficulty in obtaining systems support.	1a,1b	ICB
	1) Unless test access is designed with separation of the distribution loop, no surveillance, testing and/or isolation can be administered without dispatch.		
	2) Guidelines regarding such multi-provider dispatch Do not exist.		
	C) Expansion of current "electrical" interconnection capabilities to other means (e.g., fiber-optics) may raise maintenance and repair and testing problems.	All but 16	NOF
T/O 4	Shared Space (e.g., physical, virtual collocation)		
	A) Availability and capacity (both current and planned) of space for facilities or interconnection	All but 13, 16	ICB
	1) The interconnection type requested (e.g., fiber vs. copper) could impact availability of space at interconnection points (e.g., SAI, conduit, C.O.).		
	B) Space Administration and Access	All but 13, 16	ICB
	1) How will limited space be allocated?		
	2) How can security be maintained in a shared environment? For example, will direct connections be allowed?		
	3) Who will have access to shared facilities?		
	4) Whose labor force will do the actual physical interconnection?		
	5) What are the responsibilities of each provider?		

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PHYSICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recommendation</u>
T/O 5	Capacity Planning A) Traditional LEC forecasts and engineering will not, by themselves, be sufficient to drive network deployment in a multi-provider environment. 1) How will capacity engineering be accomplished for network components in a multi-provider environment? 2) When necessary, how can timely forecasts and planning information be assimilated among all parties? Who could access such data?	All	IC
T/O 6	Provisioning A) Load balancing in a multi-provider environment (e.g., Integrated Digital Loop Carrier, Hybrid Fiber/Coax) B) Ability of operational support systems (OSSs) to operate in a multi-provider environment to allow assignment and design of circuits	1-10, 12, 13 All	IC IC
T/O 7	Service Ordering A) Service order coordination in a multi-provider environment B) Current service orders may not reflect some points of interconnection on a single end-user account. C) Work order records required for service connection may need to be distributed among multiple providers.	All All All	OE OE OE
T/O 8	Service Order Codes A) New service order codes may be required for unbundled network service components B) Sharing of service order codes among system providers should be examined.	All All	OE OE
T/O 9	Directory Listings and Databases A) Providing directories and database services in a multi-provider environment 1) Will directories be developed on a separate or combined basis? 2) Who will handle Directory Assistance (DA) for Non-LEC customers? For a LEC customer asking for a Non-LEC number and vice versa? 3) How will DA operator recording and billing be done? 4) How will cross-charging for database entries be done?	1-6, 10	IC

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PHYSICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recomm.</u>
T/O 10	Network Reliability and Survivability A) Concerns arise from collocation of equipment without NEBS, UL, etc. compliance	All	ICB
T/O 11	Operational Support Systems A) Procedures for OSS Access in a multi-provider environment. For example: - access only to allowed data - access only to subscribed functionalities - affect only "own" services	1-5, 13 & 15	iILC

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**PHYSICAL REQUEST ISSUES
CATEGORY: STANDARDS (S)**

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recon</u>
S 1	Transmission Standards A) Transmission quality standards (switching, transport and loop) may need to be reexamined to reflect a multi-provider environment	All but 16	T1
S 2	Service Access Interface (SAI) A) Standards do not exist for third party interconnection at the SAI	1a, 1b	T1
S 3	Synchronous Optical Network (SONET) A) The Data Communications Channel (DCC) for SONET is not standardized for interoperability among different vendors' equipment B) SONET transport cannot be partitioned any lower than the network element level	3, 10, 12, 13, 16	T1

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LOGICAL REQUEST ISSUES OVERVIEW

Issues associated with administering and implementing logical interconnection are identified in the section titled "Technical/Operational". Included in this section are those issues dealing with how interconnecting companies will coordinate end user service provisioning through service orders, testing, trouble reports, trigger provisioning and trigger usage. Standards issues identified with Logical Requests center on the review of standards proceedings to ensure that existing or ongoing work involving Logical Requests reflect a multi-provider environment. Areas needing such a review include identification and development, or modification of, appropriate multiple provider, non-call-associated, message sets.

In addition to the Technical/Operational and Standards issues, the Logical Requests have associated with them some issues of Mediation. While the Mediation issues identified here relate more to the Logical Requests, further examination of potential future interconnection arrangements may result in identification of mediation concerns surrounding the "physical" networks, as well. While related to Technical/Operational issues, this category really needs to stand alone, since it will require not only technical and operational solutions, but numerous industry definitions, standards work and common assumption sets, as driven by marketplace needs.

LOGICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recom</u>
T/O 1	Trigger usage in a multi-provider environment. For example: <ul style="list-style-type: none"> - the number of providers per trigger per line - the number of services per trigger per line - the number of query destinations per trigger per line - the number of triggers per call by class of service 	D	IILC
T/O 2	Trigger provisioning and subscription in a multi-provider environment, including: <ul style="list-style-type: none"> - support systems - administration 	D	IILC
T/O 3	Uniformity of deployment of IN features across networks in a multi-provider environment. For example: <ul style="list-style-type: none"> - IN Release level - Feature availability 	A,B,C, D,E,I	LEC Non-LEC
T/O 4	Addressing and routing in interconnected networks: <ul style="list-style-type: none"> - what elements exist or can be addressed - where are they (Global Title Translations [GTT], point codes) 	A,B,C, D,E,F, K,L	T*
T/O 5	Trouble conditions in a multi-provider environment <ul style="list-style-type: none"> - end-user reporting - coordinating reports and dispatch - trouble isolation and indicators 	All	NC
T/O 6	Testing and validation systems and procedures in a multi-provider environment. For example: <ul style="list-style-type: none"> - data fill in service management - service logic creation 	A,F,G, H,J	NC
T/O 7	Network capacity engineering in a multi-provider environment <ul style="list-style-type: none"> - processing capacity - memory capacity - throughput - association of load and cost to provider 	All	IC
T/O 8	Service ordering and provisioning in a multi-provider environment; for example: <ul style="list-style-type: none"> - entry of trigger-associated data into an SCP or external database(s) - customer record maintenance and coordination - responsibilities and process for dispute resolution 	All	OE

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LOGICAL REQUEST ISSUES
CATEGORY: TECHNICAL/OPERATIONAL (T/O)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests</u>	
		<u>Affected</u>	<u>Recomm</u>
T/O 9	Identification of means to measure service levels accommodating a multi-provider environment	All	NOF
T/O 10	Billing capabilities, procedures and systems accommodating a multi-provider environment	All	OBF
T/O 11	Support necessary for the handling of default situations in a multi-provider environment	All	NOF
T/O 12	Testing and validation of multiple provider interconnections	All	ICB
T/O 13	Procedures for OSS Access in a multi-provider environment. For example: <ul style="list-style-type: none"> - access only to allowed data - access only to subscribed functionalities - affect only "own" services 	All	IILC

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This Document Reflects a Consensus of The Issue 026 Task Group
and Has Received IILC Approval.

**LOGICAL REQUEST ISSUES
CATEGORY: STANDARDS (S)**

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recom</u>
S 1	Identification and development of non-real-time interoperability interface standards appropriate for a multi-provider environment.	G,H,J	T1
S 2	Identification and development of appropriate real-time interoperability interface standards for third party service platforms and databases in a multi-provider environment.	A,C,E, F,I	T1
S 3	Identification and development or modification of call-associated interoperability standards appropriate for a multi-provider environment. Example of areas needing to be addressed: <ul style="list-style-type: none"> - Global Title Translations (GTT) - Subsystem Numbers (SSN) - GTT and SSN assignment guidelines - default treatment 	B,C,E, K,L	T1
S 4	Identification and development or modification of non-call-associated message sets appropriate for a multi-provider environment such as: <ul style="list-style-type: none"> - provider identifier - requester identifier - network identifier 	A,F,G	T1
S 5	Development of new standards to expand SS7 signaling capacity from 64 Kb to a rate that supports the increased volumes resulting from a multi-provider environment.	B,C,E, K,L	T1

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This Document Reflects a Consensus of The Issue 026 Task Group
and Has Received IILC Approval.

LOGICAL REQUEST ISSUES
CATEGORY: MEDIATION (M)

<u>Issue Number</u>	<u>Description of Issue</u>	<u>Requests Affected</u>	<u>Recomm</u>
M 1	Identification and definition of real-time and non-real-time functions of mediation appropriate for a multi-provider environment. Examples of areas to be addressed include: <ul style="list-style-type: none"> - <u>Architectural Design Issues</u> <ul style="list-style-type: none"> - placement of mediation functions in network(s) - impact of function and its placement on performance and capacity (of network and / or its components) - impact of function on call-processing (delays) - <u>Service Management Issues</u> <ul style="list-style-type: none"> - partitioning of access (i.e., to permit access only to own data) 	All	IILC
M 2	Control and management of mediation function(s) appropriate for a multi-provider environment	All	IILC
M 3	Application of mediation across multiple networks and providers	All	IILC
M 4	Management of interactions among features in a multi-provider environment, including service precedence rules	All	IILC

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PUBLIC POLICY ISSUES OVERVIEW

The local telecommunications environment in the United States is evolving from one of a sole, regulated provider of traditional local telephone service into one of competition among multiple providers. These providers may offer any combination of network facilities (such as loops, switching, signaling and/or transport), voice, data and/or video services over short and/or long distances, to end users. To assure that end-users receive compatible end-to-end products in all areas of the country, providers' networks need to be interconnected with one another, creating a "network-of-networks."

To benefit end-users and providers alike and to allow a fully competitive market to develop and thrive, we believe it is necessary to revisit public policies that were established to oversee a single-provider telecommunications environment, but could now potentially inhibit competition. Competition may be a far more effective safeguard for the public interest than is regulation.

In the process of identifying and recording public policy issues, the IILC established a basic principle that allowed all participants to identify issues that may not be policy issues for all, but would be part of the 026 public policy document. Public policy issues, thus, are included which are specific to interconnection, as well as to those more broadly related to a multi-provider telecommunications environment. It should be noted that the IILC has made no attempt to develop a consensus position regarding the resolution of these public policy issues. Interested parties may need to pursue public policy issues of concern to them in the appropriate Federal and/or State jurisdictions.

Within a broad public policy framework, the various service providers should be capable of resolving many of the technical/operational, standards and mediation interconnection issues on their own, one-on-one and in various industry forums, such as the IILC, ICCF, NOF, etc.

UNBUNDLING/INTERCONNECTION ISSUES
CATEGORY: PUBLIC POLICY (PP)

Issue
Number

Description of Issue

- PP 1** Network Reliability/ Survivability/Performance in a multi-provider environment
- A) As additional interconnection among networks is allowed, regulatory oversight associated with fault prevention and reporting must be accommodated.
 - B) Network "Certification" procedures may need regulatory review.
 - C) Minimum service levels, monitoring and network performance requirements may need regulatory review to assure they reflect a multi-provider environment.
- PP 2** Carrier of Last Resort
- A) Carrier Of Last Resort (COLR) obligations and responsibilities may need to be re-examined in a multi-provider environment (e.g., reserve facility capacity and cost recovery)
- PP 3** Directory Listings and Database Services
- A) Public policy input may be necessary in resolving published directory and directory database listing issues. (Related issues are addressed in Physical issue T/O 9.)
- PP 4** Operational Support Systems (OSS)
- A) Regulatory policies associated with access to OSSs may need to be examined to assure they reflect a multi-provider environment.
- PP 5** Universal Service
- A) The need for, and definition of, Universal Service may need to be further examined for impacts from and on a multi-provider environment
 - B) Obligations and responsibilities associated with Universal Service, if still policy goal, may require revisions for a multi-provider environment
 - C) Similarly, subsidies (both explicit and implicit) associated with any Universal Service policy may need to be examined to assure they reflect a multi-provider environment
- PP 6** Interconnection
- A) Regulatory guidelines for reciprocity in providing interfaces may be required for interconnection, signaling and services in a multi-provider environment
 - B) Existing regulatory and legal constraints that may inhibit a fully competitive multi-provider environment need to be examined and possibly revised (e.g. resale rules/SPOI/market trials)
- PP 7** Compensation
- A) Policies associated with investment made under rate of return regulation (particularly for facilities abandoned solely due to competition) may need review for impacts of a multi-provider environment

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