

COMPUTER COMMUNICATIONS: GOVERNMENT REGULATION

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I. INTRODUCTION

Federal regulation of communications as it relates to the vendor of computer services and the organization with an in-house system is a timely topic: the subject is complex, the technology is dynamic, and the rules are evolving. Those potentially affected by such regulation must familiarize themselves with the issues so that they can participate in the development of these rules.

There are two proceedings which will have a significant impact on future government regulation: the Federal Communications Commission's Second Computer Inquiry¹ and Congress' study of possible revisions of the Communications Act of 1934.² The latter was triggered by the efforts of American Telephone and Telegraph Company (AT&T) and the telephone industry to secure passage of the Consumer Communications Reform Act of 1976.³ Before discussing these

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1. Amendment of § 64.702 of the Commission's Rules and Regulations, Docket No. 20828, Notice of Inquiry and Proposed Rulemaking, 41 Fed. Reg. 33,563 (1976) [hereinafter cited as Amendment of § 64.702]; 61 F.C.C.2d 103 (1976).

2. 47 U.S.C. §§ 151-609 (1970 & Supp. V 1975). Sections 201-222 deal primarily with the regulation of communications common carriers. *Id.* §§ 201-222. Common carriers are also affected by the administrative provisions of Titles I and IV of the Act and, when using radio transmission facilities, by Title III. *Id.* §§ 151-155, 401-416.

3. A series of bills, inappropriately entitled the Consumer Communications Reform Act of 1976, were introduced in the 94th Congress. The primary bills were S. 3192, 94th Cong., 2d Sess., 122 CONG. REC. 3982-83 (1976), and H.R. 12323, 94th Cong., 2d Sess., 122 CONG. REC. 1676-77 (1976). For a complete list of all bills introduced, see Legislative Calendar of the Senate Comm. on Commerce, 94th Cong., 2d Sess. (final ed. Dec. 31, 1976); Legislative Calendar of the House Comm. on Interstate

proceedings, however, it is necessary to explore why these issues are presently under consideration.

Since the early 1960s, there has been a trend to make centrally located computers accessible from widely scattered geographic points, and to link geographically separated computers by utilizing common carrier telephone or telegraph facilities. In an advanced stage, a data processing company or end user may have an extensive communications network which is an integral, yet incidental, part of its computer system. In these networks, one or several computers may be used for tabulation, as a data base, and for other conventional "data processing" activities. The network may be based on a large central computer or combine central and minicomputers which share functions. However configured, the network operates as an integrated system.

Because the telephone companies for many years did not encourage the development of computer (data) communications systems or components, unregulated data processing organizations, service firms, and manufacturers were able to introduce numerous innovations into the computer market without substantial interference. Recently, however, the telephone industry, and particularly AT&T, has responded to this competition. The common carriers now apparently believe that the computer business has substantial growth potential and their interest in computer communications is accelerating: during the past few years, for example, AT&T has introduced the Dataspeed 40/4 terminal,⁴ the Model 208 (4800 bps) and Model 209 (9600 bps) modems,⁵ and a customer-premises multiplexer (4 channels)⁶ for use on its digital pri-

& Foreign Commerce, 94th Cong., 2d Sess. (Jan. 3, 1977). The Act has been reintroduced in the 95th Congress by Rep. Roncalio (D. Wyo.) in the House, H.R. 8, 95th Cong., 1st Sess., 123 CONG. REC. 78 (1977), and by Sen. Hansen (R. Wyo.) in the Senate, S. 530, 95th Cong., 1st Sess., 123 CONG. REC. 1757 (1977). See note 43 *infra*.

4. A Dataspeed 40/4 terminal resembles a teletype machine; however, it provides for the introduction and retrieval of information from a computer.

5. Modems are devices that permit information to travel over a conventional telephone line to or from a computer. A computer signal is "digital" and the signal on a telephone line is "analog." The modem converts a digital signal to analog, and vice versa. The higher the modem speed, expressed in bits-per-second, (a bit is the smallest unit of information representing a choice between two possible states), the more information is transferred in a given period of time. The historic trend has been to increase speed, without sacrificing quality.

6. A multiplexer is a device which can divide the signal on a telephone line

vate lines.⁷ In transmission services, AT&T has introduced digital private lines, Dataphone Digital Service (DDS), and a packet-switched type offering, Transaction Network Service (TNS).

Carrier participation in the data processing industry, however, presents certain problems. As the sole suppliers of telephone or telegraph services, certain carriers have the market power to tie or compel the purchase of their data processing services; they can subsidize the cost of their data processing services with the revenue derived from their monopoly; and they are able to divert resources needed to provide basic telecommunications services to promote their competitive data processing business. The issues raised by such competition will ultimately affect the services and facilities available to all users of computers and communications components needed to link the computer to the user. At stake is the continuation of high level technological development and the competitive pressure to improve service and reduce prices.

II. THE REGULATORY FRAMEWORK

A. *Scope of Regulation*

The Communications Act of 1934⁸ authorizes the Federal Communications Commission (FCC) to regulate radio or wire communications. The FCC, however, has no power to regulate data processing⁹ or private—as opposed to common—carriage for hire.¹⁰ The Act is

so that a number of computer “conversations” can be conducted virtually simultaneously. This increases the effective capacity of a given line. Multiplexers can subdivide a regular line used for a single normal (voice) conversation to carry 10, 20, 30, or more computer conversations.

7. Telephone service has historically been an analog signal. For computer use, there must be a converter. See note 5 *supra*. Recently, carriers have been making available digital transmission services which do not require a modem. Data Transmission Company (DATRAN) initiated this service which is also offered by AT&T under the name Dataphone Digital Service, sometimes referred to as DDS.

8. 47 U.S.C. §§ 151-609 (1970 & Supp. V 1975).

9. Cf. Regulatory and Policy Problems Presented by the Interdependence of Computer and Communication Services and Facilities, 28 F.C.C.2d 267, 268 (1971). The FCC is authorized to regulate common carriers' provisions of data processing services to ensure that common carriers provide “adequate and efficient communications services at reasonable and non-discriminatory rates and practices.” The FCC requires, therefore, “‘maximum separation of activities . . . subject to regulation from non-regulated activities involving data processing.’” *Id.* at 269.

10. See 47 U.S.C. § 153(h) (1970).

designed to assure the availability of adequate interstate communications services,¹¹ and requires that the Commission meet a statutory "public interest" test in all licensing and tariff determinations.¹² This test encompasses several factors including the public's communications needs, the costs and rate structure of the offered facility or service, and its effect on competition. An important consideration in establishing regulatory policies for computer communications is the effect on competition.¹³

B. *Data Processing v. Communications: Present Rules*

The FCC's Computer Rules¹⁴ were adopted to preserve the integrity

11. See 47 U.S.C. § 151 (1970).

12. See 47 U.S.C. §§ 201, 214 (1970 & Supp. V 1975).

13. See, e.g., *General Tel. Co. of the Southwest v. United States*, 449 F.2d 846, 856-857, 858 (5th Cir. 1971); *Application of ITT Corporate Communications Services, Inc.*, FCC Docket No. 77-428 (July 6, 1977).

14. 47 C.F.R. § 64.702 (1976), provides:

(a) For the purpose of this subpart—

(1) "Data processing" is the use of a computer for the processing of information as distinguished from circuit or message-switching. "Processing" involves the use of the computer for operations which include, *inter alia*, the functions of storing, retrieving, sorting, merging, and calculating data, according to programmed instructions.

(2) "Message-switching" is the computer-controlled transmission of messages, between two or more points, via communications facilities, wherein the content of the message remains unaltered.

(3) "Local data processing service" is an offering of data processing wherein communications facilities are not involved in serving the customer.

(4) "Remote access data processing service" is an offering of data processing wherein communications facilities, linking a central computer to remote customer terminals, provide a vehicle for the transmission of data between such computer and customer terminals.

(5) "Hybrid service" is an offering of service which combines remote access data processing and message-switching to form a single integrated service.

(i) "Hybrid data processing service" is a hybrid service offering wherein the message-switching capability is incidental to the data processing function or purpose.

(ii) "Hybrid communication service" is a hybrid service offering wherein the data processing capability is incidental to the message-switching function or purpose.

(b) Except as provided herein, no common carrier subject, in whole or in part, to the Communications Act shall engage directly or indirectly in furnishing data processing service to others except as expressly provided in paragraph (c) of this section. This prohibition shall apply to all communications common carriers, including section 2(b)(2) carriers, where any carrier itself has annual operating revenues exceeding \$1 million or any such carrier

of common carrier facilities and prevent harm to customers of tarified service by cross-subsidization. To achieve these goals, the FCC adopted a relatively simple approach: carriers may conduct a "data

is directly or indirectly controlled by, or is under common control with, another carrier or carriers, and the combined annual revenues of all such carriers exceed \$1 million.

(c) Except for companies of the Bell System, common carriers may, subject to other provisions of law, have a controlling or lesser interest in, or be under common control with, a separate corporate entity that furnishes data processing service to others provided the following conditions are met:

(1) Each such separate corporation must maintain its own books of account, have separate officers, utilize separate operating personnel, and utilize computing equipment and facilities separate from those of the carrier for its data processing service offerings.

(2) Each such common carrier shall file with the Commission a complete statement of the terms and conditions of every written or oral contract, agreement, or other arrangement entered into between such carrier and any such separate corporation within 30 days after the contract, agreement, or other arrangement is made.

(3) No such common carrier subject to the prohibition of paragraph (b) of this section shall engage in the sale or promotion of data processing services on behalf of any such separate corporation.

(d) No common carrier subject in whole or in part to the Communications Act of 1934, as amended, shall sell, lease, or otherwise make available to any other entity any capacity or computer system component on its computer system or systems which that carrier uses in any way for the provision of its common carrier communications services.

(e) Any common carrier intending to file a tariff respecting a service offering which it considers to be a hybrid communication service shall, at least 90 days prior to the intended effective date of such tariff, submit to the Commission a complete description of the service, along with a statement of its reasons for concluding that the proposed service is a hybrid communications service. Whereupon:

(1) If, at the end of 60 days after such notice is filed with the Commission, the Commission has not advised the carrier of contrary findings respecting its proposed hybrid communication service, the carrier may proceed to file appropriate tariffs in accordance with applicable provisions of the Commission's rules; or

(2) If the carrier is advised within 60 days after the Commission's receipt of notice that the Commission has tentatively concluded that the proposed offering is not a hybrid communication service, the carrier may seek reconsideration of the tentative conclusion, request a hearing on any disputed factual findings or pursue such other remedies as are provided by law.

(f) Before a common carrier may provide its data processing affiliate with communication services and facilities which the latter desires to use for the furnishing of any hybrid data processing service, the carrier shall first submit, directly or through its affiliate, a complete description of the proposed service offering, along with a statement of the reasons for concluding that the service is a hybrid data processing service. The carrier may provide such service unless, within 30 days from the receipt of such notice, the Commission shall have advised the carrier or its affiliate of the Commission's tentative conclusion that the intended service is a communications service. If the carrier and its affiliate disagree therewith, the carrier may seek reconsideration of

processing" activity only through a separate corporate subsidiary.¹⁵ The separation of data processing and communications is particularly significant to AT&T. Because of the Consent Decree entered in *United States v. Western Electric Co.*,¹⁶ AT&T can only offer tariff regulated "communication" services; a determination that an activity is data processing, rather than communications, bars AT&T from offering that service.

In addition, an inexperienced observer sometimes finds it difficult to categorize an activity when elements of both are present in a particular service, as with remote access data processing. A key factor is whether the vendor of the service is performing communications services for itself or for others. If the vendor performs these services for itself, it is not providing communications common carriage within the meaning of the Communications Act; under existing tariffs, the

the tentative conclusion, request a hearing on any disputed factual findings or pursue such other remedies as are provided by law.

(g) No common carrier providing a communication service, hybrid or otherwise, may discontinue such tariffed service until authorization to do so is obtained from the Commission. In seeking authorization to discontinue a service, a carrier must:

(1) Demonstrate that neither the present nor future public convenience and necessity will be adversely affected by the discontinuance. Such demonstration shall include whether and to what extent there is a demand for the communication service, the entity or entities which would continue to provide such service if discontinued by the carrier, and the comments of existing customers on any proposed modification of the service and its offering by a carrier's data processing affiliate;

(2) Demonstrate the nature and extent of the public demand for any modified service proposed to be rendered as a hybrid data processing service; and

(3) Submit full information as to the disposition of any of the facilities used in the communication service, including relevant financial arrangements, the accounting to be performed by the carrier with respect to the transaction, and the treatment of any losses sustained in the provision of the communication service.

15. *Id.* § 64.702(c). See note 14 *supra* for the text of the regulation.

16. 1956 Trade Cas. 71,134 (D.N.J. 1956). The decree was entered in an anti-trust action brought by the Department of Justice against AT&T, Western Electric, the 22 Bell Operating Companies, and their subsidiaries engaged in furnishing common carrier communications services. One of the decree's major functions was to prevent AT&T and the other defendants from entering new areas in the data processing field. To ensure this, the decree prohibited the manufacture, sale, or lease of equipment not used in the furnishing of common carrier communications, and enjoined the defendants from engaging in any kind of business not then characteristic of the companies. *Id.* at 71,137-38. Other sections of the decree concerned the acquisition of related companies, and the licensing of patents and furnishing of technical information. *Id.* at 71,138-42.

vendor would not be engaged in resale. Thus, a remote access data processing company does not offer communications when it sells remote access data processing or time sharing services, because its activities are communications for the data processing company alone. Remote access data processing is therefore "pure" data processing within the meaning of the Computer Rules.

The Commission, however, has recognized that there may be certain circumstances in which a combination of data processing and communications common carriage services should be permitted. The FCC has therefore created two "hybrid" categories¹⁷: *A hybrid communications service* consists of an integrated communications and data processing service in which the data processing is incidental to the communications activity. *A hybrid data processing service*, on the other hand, is an integrated offering in which the communications function is incidental to the data processing activity.

C. *Dataspeed 40/4 and SICOM*

Two recent FCC decisions illustrate the application of the Computer Rules to actual service offerings.¹⁸ In the *Dataspeed 40/4* proceeding,¹⁹ the Common Carrier Bureau Chief rejected AT&T's tariff filing for a "smart" terminal device. In the Initial Decision, the Chief noted that the term "data processing," as used in the Computer Rules, applied not only to central computer data processing but also to services provided by devices such as the *Dataspeed 40/4*, which function as an integral part of a data processing service. The Initial Decision pointed out that the *Dataspeed 40/4* terminal would not be used to communicate with another *Dataspeed 40/4* terminal; it appeared incapable of such communication without the addition of external data processing equipment.²⁰ The Bureau Chief concluded, therefore, that AT&T was attempting to tariff a data processing unit. Since the Computer Rules prohibited the offering by common carriers of data processing services under tariff, the Chief rejected AT&T's *Dataspeed 40/4* tariff. Because AT&T can only offer services under tariff, it was

17. 47 C.F.R. § 64.702(a)(5) (1976). See note 14 *supra*.

18. These are the only formal opinions issued by the Commission interpreting the old Computer Rules.

19. AT&T Revisions to Tariffs, FCC Nos. 260 & 267, Transmittal No. 12,449 (March 3, 1976).

20. *Id.* at 6.

effectively precluded from marketing the Dataspeed 40/4.

The full Commission reversed the Bureau Chief's decision,²¹ and held that the original Computer Rules were aimed at processing carried on in large central computers. Consequently, it concluded that AT&T's Dataspeed 40/4 was a communications *service* not within the ambit of the Rules.²² Questions concerning the offering of data processing *equipment* were reserved for the Second Computer Inquiry.²³

The second recent Commission decision involved Western Union's SICOM service,²⁴ and was the first formal interpretation of the Computer Rules. The issue was whether basic SICOM and its collateral services constituted a single integrated hybrid service and, if so, whether it was a hybrid communications or data processing service. Basic SICOM service included channel facilities and equipment for simultaneous two-way transmission of communications between stations on a customer's private network through a computer located on Western Union's premises. Western Union later amended its basic SICOM tariff to include certain optional features, several of which were admittedly data processing services.

The Commission's concern was whether four of these collateral data processing services²⁵ were so integrated with the basic SICOM service that it was infeasible to offer them separately. Although the Commission recognized that the collateral services were transmitted over a customer's SICOM network, it found that this constituted merely the "close and intimate relationship between data processing and

21. AT&T Revisions to Tariffs, FCC Nos. 260 & 267 Relating to Dataspeed 40, 62 F.C.C.2d 21 (1977).

22. *Id.* at 29.

23. *Id.* at 31.

24. Western Union Tel. Co., Tariff FCC No. 251 (SICOM Service), 59 F.C.C.2d 140 (1976), *appeal dismissed sub nom.* Western Union Int'l Corp. v. F.C.C., No. 77-4065 (2d Cir. Aug. 30, 1977).

25. The services included:

1. *Order Match* matched executed reports with orders entered into the computer center. The order-matching information was sent over the SICOM system to the customer station originating the trading orders.
2. *Execution Recap* furnished the customer with a daily list, on magnetic tape, of all executed orders.
3. *Data Collection* furnished the customer a magnetic tape of trading and accounting information on the customer's transactions; and
4. *Microfilm Journal* furnished the customer with a monthly microfilm record of all messages entered into the computer center by the customer.

communications" referred to in the First Computer Inquiry.²⁶ Such a relationship alone did not create a single integrated hybrid service. Because the only apparent reason to offer four collateral data processing services in connection with SICOM was to provide access by a file processing computer to the customer's basic SICOM information, the Commission found that the integration was insufficient to constitute a single integrated hybrid service. Thus, if it is technically and economically feasible to offer the data processing elements separate from the communications elements, an offering apparently cannot meet the integration test necessary to be classified as a hybrid service.²⁷ The Commission concluded that the offering violated the Computer Rules, and directed Western Union to revise its SICOM tariff to delete the four collateral data processing service offerings.

Western Union petitioned for reconsideration, but the Commission reaffirmed its decision.²⁸ Western Union subsequently revised its SICOM tariff and made the previously optional data processing elements "mandatory" by establishing usage sensitive charges which would apply if and when the customer used one of these services. The Commission rejected this revision on procedural grounds.²⁹

The *Dataspeed 40/4* and the *SICOM* decisions, which required that equipment be classified and effectively limited the "hybrid" category, mandated the Commission's Second Computer Inquiry.

III. THE PROCEEDINGS

A. *Docket 20828: FCC's Second Computer Inquiry*

As a result of this situation, the FCC has instituted proceedings to consider possible changes of the present Computer Rules.³⁰ On March 8, 1977, it enlarged that proceeding to analyze proposed language and to address the equipment issues raised in *Dataspeed 40/4*.³¹

26. 59 F.C.C.2d 140, 144 (1976).

27. *Id.* at 144-45.

28. Western Union Tel. Co., Tariff FCC No. 251 (SICOM Service), 62 F.C.C.2d 518 (1976).

29. Western Union Tel. Co., Tariff FCC No. 251 (SICOM Service), 63 F.C.C.2d 532 (1977).

30. Amendment of § 64.702, *supra* note 1; 61 F.C.C.2d 103 (1976).

31. Supplemental Notice of Inquiry and Enlargement of Proposed Rulemaking, FCC 77-151, 42 Fed. Reg. 13,029 (1977); *see* notes 19-23 *supra* and accompanying text.

The Commission's proposed new rules continue the separation of communications and data processing activities, eliminate the hybrid categories, and define data processing as "the electronically automated processing of information wherein: (a) [t]he information content, or meaning, of the input information is in any way transformed, or (b) where the output information constitutes a programmed response to input information."³² The Commission, although not as part of its rules, has stated that the following activities would be *data processing* under its proposed definition:

Arithmetic processing. Applications include: general commercial accounting, inventory control, banking and point-of-sale processing, financial and econometric modeling, scientific calculations, etc.;

Word processing. Applications include: interactive information retrieval systems, management information systems, text editing, translation, typesetting, etc.;

Process control. Applications include the use of electronic equipment to monitor and control some process which is occurring on a continuing basis—such as nuclear-powered generating stations, an electric power distribution grid, an automatic machine tool, or a fire detection and control system.³³

The Commission similarly detailed certain processing activities which *would not in and of themselves constitute "data processing."* This utilization in the course of providing either a communications or a data processing service would not necessarily change the nature of that service. These include:

Network control and routing. Applications include: message and circuit switching, speed and code conversion, pulse format conversion, transmission error detection and correction, analog to digital and digital to analog conversion, signal processing, and time division multiplexing.

Input/output processing. This category comprises the uses of processing capability resident in a carrier network facility for the purpose of making disparate information sources and receptors compatible with the transmission system and with each other. Such processing activities include those necessary for formatting, editing, and buffering of information to make it compatible with the electrical characteristics of different transmission media.³⁴

32. 42 Fed. Reg. 13,029, 13,030 (1977) (footnotes omitted).

33. *Id.*

34. *Id.* at 13,030-31 (footnotes omitted).

Under the proposed rules, carriers apparently will be free to offer any services involving activities *not* included in the positive definition of data processing. As with the existing Computer Rules, the purpose of the proposed rules is to require common carriers who offer data processing services to use separate personnel and facilities.³⁵ The Commission's recent decision in Docket 20097,³⁶ however, indicates that waivers of the Computer Rules might be granted to resale carriers who do not own underlying facilities, i.e., cables, microwave towers, wire, etc. This ruling, as well as the decisions ultimately made in Docket 20828, may substantially affect the level of competition in the data processing services industry.

In addition to its concern with the effect of its proposed rules, the Commission solicited comments on two broader issues: under what conditions carriers should be permitted to offer customer-premises terminal equipment; and, whether there is a need for legislation to aid the Commission in its regulatory work.³⁷

The Commission summarized its concerns as follows:

(a) Whether the proposed definition of "data processing" correctly divides "communications" and "data processing" when applied to a carrier's processing activities, regardless of location within a service offering; and whether the proposed § 64.702 will be administratively enforceable and in the public interest;

(b) Whether the proposed amendment of § 64.702 will afford flexibility in the structuring of service offerings, and, at the same time, be conducive to innovation in the communications and data processing fields;

(c) Whether the offering of customer-premises equipment which performs any information processing activity, other than basic media conversion, should be considered a communications common carrier activity; and the proper institutional arrangements, terms, conditions, and regulations under which communications common carriers should be permitted to make such offerings.

(d) Specific legislative proposals or recommendations directed at remedying any inadequacies of the Communications Act of 1934, as

35. Amendment of § 64.702, *supra* note 1.

36. Resale and Shared Use of Common Carrier Services and Facilities, 60 F.C.C.2d 261 (1976), *petition for reconsideration granted in part and denied in part*, 62 F.C.C.2d 588 (1977).

37. 42 Fed. Reg. 13,029, 13,032 (1977).

amended, in dealing with the confluence of data processing and communications.³⁸

B. Legislation

The regulation of computer communications is also being debated in Congress. The highly publicized Consumer Communications Reform Act (CCRA)³⁹ has become the focus of the controversy. Its opponents have dubbed it the "Monopoly Protection Act of 1976," and charge that its title is "deceptive packaging." The bill, sponsored by about 180 members of the 94th Congress, would transfer jurisdiction over station equipment and terminal facilities to the states,⁴⁰ giving them authority to set interconnection rules, define station equipment, and dictate the terms under which such equipment could be marketed. The legislation also would permit state control of the interconnection of interstate specialized common carriers to AT&T local distribution facilities. This would strip the FCC of its authority to assure an integrated nationwide switched telephone network. The resulting fragmentation of authority would cause havoc in multistate computer systems.

In addition, the legislation would preclude the authorization of additional common carriers, if existing carriers have facilities which *could* provide the services the applicant intends to offer.⁴¹ There is, however, no corresponding requirement that the existing carrier *actually* provide the service. This would affect all types of carriers whether terrestrial, microwave, satellite, value-added, or other. Since many of the new value-added carriers service computer users, such restrictions would undoubtedly affect the quality, cost, and variety of services available to such users.⁴²

These provisions would significantly change the Commission's philosophy of maximizing competition in the communications-data processing area. This legislation, which has been reintroduced in the 95th Con-

38. *Id.*

39. See note 3 *supra*.

40. See, e.g., S. 3192, 94th Cong., 2d Sess. § 2(d) (1976).

41. *Id.* § 6.

42. Also of interest and concern to computer users, are the provisions which would extend antitrust immunity to certain acquisitions of one common carrier by another and preclude the FCC from striking down a rate as noncompensatory, if the rate were sufficient to cover the incremental costs of the carrier.

gress,⁴³ therefore requires serious consideration, from both a substantive and procedural standpoint. It currently has about ninety-nine sponsors in the House and three in the Senate.⁴⁴ It has provoked substantial controversy and thirty-two members of the House and Senate have sponsored a Pro-Competition Resolution.⁴⁵

In response to the CCRA and Pro-Competition Resolutions, the Subcommittees on Communications in both houses of Congress have commenced hearings to thoroughly review the 1934 Communications Act. The issues to be explored include limited regulation or deregulation of computer-regulated communications, and the complete separation of carrier organizations that offer monopoly services from those that offer competitive services.

This legislative effort is important because it focuses public attention on telecommunications and data processing services. There has been and will continue to be, a great deal of debate and, as a result, the role of these services in our economy will be better understood. Congress and the regulators will recognize that efficient remote access data processing systems affect the cost of goods and services to consumers which in turn affect employment and the balance of payments. These

43. The purpose of this Bill, introduced by Roncalio (D. Wyo.) in the House of Representatives, H.R. 8, 95th Cong., 1st Sess. (1977) and by Hansen (R. Wyo.) in the Senate, S. 530, 95th Cong., 1st Sess. (1977) is:

To reaffirm the intent of Congress with respect to the structure of the common carrier telecommunications industry rendering services in interstate and foreign commerce; to reaffirm the authority of the States to regulate terminal and station equipment used for telephone exchange service; to require the Federal Communications Commission to make certain findings in connection with Commission actions authorizing specialized carriers; and for other purposes.

S. 530, 95th Cong., 1st Sess. (1977).

44. As of July 25, 1977, there were 71 CCRA bills introduced in the House with 99 sponsors. Two bills were introduced in the Senate with nine sponsors. Two pro-competition resolutions with 28 sponsors were introduced in the House and one, with two sponsors, in the Senate. In addition, 35 Resolutions with 51 sponsors calling for congressional hearings were introduced in the House.

45. H.R.J. Res. 285, 95th Cong., 1st Sess. (1977), introduced by Wirth (D. Colo.); S.J. Res. 30, 95th Cong., 1st Sess. (1977), introduced by Hart (D. Colo.).

The resolution provides: "That competition is hereby reaffirmed as the best means of serving the American consumers' diverse and rapidly changing telecommunication needs, except where there is clear and convincing evidence that such competition would produce unreasonably higher costs or poorer service for the American consuming public." S.J. Res. 30, 95th Cong., 1st Sess. (1977).

systems are becoming an integral part of commercial, industrial, financial, governmental, health, and educational organizations. It is hoped that Congress will produce sound legislative remedies.