American Deregulation in Telecommunications and its Implications for Western Europe

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The Setting

multiple changes in American telecommunications landscape that are encompassed in the short-hand terms "deregulation" and "divestiture," have been bewildering to Americans: As could be expected, must criticism was expressed in public forums at the break-up of the warm and ™Ma familiar Bell," and at prospects of major rate increases for residential subscribers. Unfortunately it often seems as if only negative views of the developments are presented to European public, to the exclusion of a more balanced picture. This onesidedness is not helped by a frequent messianic tendency on the part present US policy makers to their institutions, history, and political traditions.

Europeans understand clearer than Americans that "deregulation" i emphemism for "laissez-faire," a descredited in America both by term century robber barons and by its French linguistic roots. "Deregulation," the other hand, has a more benign sound, since an aversion to the heavy hand of government regulation has theme on which wide part of the American political spectrum can agree as a general proposition, though rarely in a concrete case. In America. accelerated penetration of electronic technology in the telecommunications sector coincided and interacted with an intellectual and political move towards laissez-faire in general. In Europe, new technology is similarly the ideological but the available, institutional receptivity new · arrangements is very different. most Europeans, the clear trend towards history has been economic increased forms of public control. The political left took the scientific inevitability of this progressive trend the conservative right, as dogma; parts of it were fighting though bitterly against public control, was long in doubt of its own long term in stemming the trend. prospects Joseph Schumpter, who expressed this pessimism, saw capitalism in a no-win it even where situation: economically successful, it undermined in the process of its own foundations and was doomed. The American history experience, for a long time, followed expected path from relatively

unbridled laissez-fair capitalism, the regulation of monopolies in the Progressive Era, to the New Deal regulatory system which steadily if unspectacularly expanded in the three decades following World War II. aspect of recent developments unusual regulatory policy is their reversal of this historical trend. They must be viewed as more than a course correction to offset some bureaucratic excesses: nor can they be properly understood as merely a pro-business restoration; nor as a mere political fashion, induced by post Vietnam and Waterqate disillusionment with government. American turn towards laissez-faire is a more fundamental movement, based on intellectual acceptance of ideas critical ٥f the ability and desirability οf governmental interference in the private and ideas that have been economic spheres, embraced -- openly or unacknowledged -by large parts of the intelligentsia, the Middle Class, the post-war babyboom generation that is rising in all institutions, and of course by those economic interets who stood to gain -which did not include the traditional mainstay firms the telecommunications industry.

These American developments generally not been matched continental Europe, and the implicit challenge of the American negation the historic trend has often caused harsh response. This iв nowhere evident than telecommunications. Here, the typical European system is a classic semisocialized intermixture of private public interests that has worked reasonably well in the past, America. the twin developments ideology and technology accelerated each other 80 that the existing institutional forms regulated domestic AT&T monopoly, the segmented international service, the

three television network system have been swept away, while impressive renaissance in electronic and information technology entrepreneurialism is underway. Technology has been an argument for a lowering of barriers. In Europe, home-grown technology has progressed cautiously, as institutional changes. Technological progress has been used an argument in favor of centrally planned, technically compatible, and economically efficient monopoly system, as for example in the case of the ISDN, the central element of future European telecommunications infrastructure. At the same time that the United States has dismembered its primary telephone carrier AT&T, France has nationalized much of its electric telecommunications equipment industry, and in effect created an analogue of the old Bell System: vertically integrated complex equipment manufacturing coupled with telecommunications transmission monopoly and an R&D laboratory, decentralized but government controlled. Thus, at the same time the AT&T telecommunications monopoly in the United States has been divested into several component parts, the French have done the opposite and have assembled, for the first time, the major elements of telecommunications under one ownership.

Some Effects of American Deregulation

One of the immediate concerns of American commentators had been the effect of the AT&T divestiture on residential subscribers. Figures of 300% increases were frequently cited. In fairness, however, it

be pointed out that should increases, as intolerable as claimed more modest in sound they are, absolute dollar figures (about and, that they are partly offset by reductions in long distance rates and equipment charges. Furthermore, predictions of steep rate increases did not take into account the fairly swift political-regulatory working of the whose strong opposition will system, permit at most only a very gradual phase-in of increases in local-service rates. Furthermore, social safety-nets in the form of "life-line" service for the needy are being introduced across the country. Overall, it is highly unlikely that residential customers bear the full cost ο£ will it is more likely that service; be some alternative form will subsidy, either internal -- to the extent that this will not lead many business to "by-pass" the system--or useis through some form of a communications surtax for a universal service fund. Finally, the rate pressure is-forcing the local exchange telephone firms their holding companies to discover ways of cutting costs and to find new The opportunities. total business users is that residential result not likely to be as badly off it as seemed at first; but they will clearly they did before more than (unless they have many divestiture Most calls). long-distance reassuringly, a strong sentiment for supporting the poor and elderly in their telephone usage is evident. The positive social οf argument economic externalities for broad-based participation in the public network has been accepted, and the commitment universal service is strong.

At the same time, residential and business users are beginning to benefit from the head-to-head competion of long distance companies and equipment suppliers. As equal access for all

long-distance carriers is successively instituted, the rivalry for subscribers becomes feverish. mighty AT&T has even started giving out to its users Green Stamps discount coupons for various items The merchandisel rates of AT&T's competitors are already unregulated. AT&T recently lowered them by 6.1%, and is offering customers block-buying The FCC approach seems to be schemes. let AT&T lower its prices only slowly, so as to permit the growth of its competitors. Most likely, when AT&T's market share has fallen to about two-thirds of the total, its lona⊷ distance rates will be deregulated. At present, the firm claims that it losing 5,000 customers a day, many of whom are among the heaviest callers. At the same time MCI in particular has embarked on a major investment program transmission facilities anticipation of further inroads AT&T's business. These developments are reducing customer rates steadily. The primary problem that customers have encountered is in the installation of Coordination problems private lines. between AT&T and the local companies created a major back log of have orders. But there is no reason expect that the problem is more than transitional. The argument economies of scale, perhaps the key economic underpinning for a maintenance of monopolistic supply, has itself to be largely irrelevant in this situation. Much more significant is that the existing rivalry is forcing the competitors to move their curves downwards. The move of the cost curves themselves, much more than the chief move along them, is а characteristic of the new regime. The reliance on this shift through the dynamics of market competitions, as opposed to the goal of moving down a static curve, is, in a nutshell, difference of the new and the old American approaches.

fundamental Another economic ο£ competition problem telecommunications, at present only in incipiency, has not been well anticipated. It is the problem of competition when marginal unstable costs are quite low. With - the expansion of the various long distance networks, one may soon overcapacity; with low marginal cost, price wars should then be expected that would not permit a recovery of total costs. In such circumstances, one can see the re-emergence of stabilizing rate regulation in the future. time presiding over an oligopoly rather than a monopoly. The oligopoly would consist, in all likelihood, of the general carriers, AT&T, MCI, GTE, and ITT, with SBS (IBM), primarily as a business data carrier. Smaller and specialized carriers find may additional niches; most of the many present resellers will consolidate into large entities linked to major telecommunications firms. In the long run, one would also expect the Bellregional holding companies divested (RHCs) to enter long distance | transmission. At present, they are prohibited from doing so under the Bell divestiture decree as an intermingling monopolistic and competitive However, the model of GTE functions. which combines those two functions under a rigid separation would lend itself to the RHCs in the future. competitive/non-competitive dichotomy is inherently doomed to failure in event: in that sense the divestiture will not succeed, since the boundary between naturally monopolistic and competitive communications services forever shifting. Nor will arbitrarily timed divestiture be able institutionally freeze this tendency.

AT&T is also challenged on the equipment front. Having lost its ownership hold over the local exchange

companies with their buge equipment needs, AT&T must now compete for their As business. in long-distance AT&T's market share has transmission, no way to go but down, and its total sales will also decline, unless it can offset domestic losses by international qains. Market share for PBX equipment dropped from 51% to 22% over AT&T's its production of new decade. equipment has been hampered by shortages in chip-making capacity. company is now embarked on vigorous cost cutting; but it is bound by labor contracts which disadvantage it in comparison with its frequently nonunionized competitors. According to some analysts, AT&T's cost for product installation and maintenance is \$61 per hour, as compared to \$33 for IBM and \$28 for MCI. The company is said to be able to cut more than 10% of 373,000 employees without noticeably affecting its operations [1]. trend is unavoidably in a direction of labor confrontations, which will reduce eliminate the traditional familial οг work attitudes at AT&T. It is also by its relative lack hampered production orientation and marketing expertise, which is essential in the highly competitive markets into which it is thrust, or to which it enters. The market for small computers and PBX equipment : is sophisticated as performance characteristics, and has no great respect for big names, as even learned. IBM has Ιt demands innovation, rapid production cycles, strong support systems, and competitive pricing. Even for a technological leader such as AT&T, which has entered with a line of 3B minicomputers and system 75 PBX and personal computers, this will prove to be a major challenge.

AT&T's main trump in the computer business is its Unix operating system which may well be the wave of the

Unix has "portability" programming flexibility, and can run on applications computer; any almost software for Unix can be used for Unix has a wide and devoted machines. universities. in following Unfortunately, ATST may not profit from very much, since before the divestiture it had been slow to license other computer manufacturers thus to make it the industry standard. For a while, even IBM had to be a licensee; but by now, the newest IBM Personal Computer AT, announced August, 1984, uses a Unix-like system named Xenix, written by the software house Microsoft. AT&T may thus be left out in the cold in terms of royalties, probably reducing its computer revenues in 1988 from an estimated \$4 billion if Unix were the industry standard, The company tries to half that much. prevent this by incorporating Unix into microprocessor chips themselves, to be lower cost producer of Unixthe AT&T Ironically, the computers. operating revolution in induced software that is sweeping the computer field is not only benefitting its many rival adaptations, but in the long run the Japanese computer manufacturers, whose weakness in software design is Unix's bγ alleviated greatly flexibility.[2]

less sophisticated markets, able to buy cheap consumers are telephone sets sometimes for less than \$10 at the corner hardware store, plug them in, and throw them away if they break, just as they do with a toaster. prophesized major problem The the course faulty of determining service has not noticeably materialized for residential users.

AT&T has reorganized itself around the two product lines of equipment (AT&T Technologies, 40% of revenues) and long distance service (AT&T Communications, 60% of revenues and most of the profits). AT&T Information encompasses the System short-lived separated subsidiary American fully Bell. AT&T Technologies is barely profitable, reportedly due to remaining complexity of its structure. Further major cuts are expected. is said to generate only \$39,000 unit in revenue per employee, as contrasted \$93,000 for IBM [3]. AT&T has with lost \$1 billion in its first year of operation.

What does all this add up When the AT&T divestiture announced, US critics, and with them many European observers, interpreted this event as a victory for AT&T, which had shed, it was believed, the sluggish and regulated parts of its business and gained the rights to the world of the future, the new information technology. This interpretation disregarded fight that AT&T had waged long its end-to-end vertical preserve integration, which was the cornerstone its corporate philosophy; it was ignorant, as foreign observers still are, of the FCC's computer II decision, which, preceding the divestiture by about a year, had opened competitive markets to AT&T under a structurally separated subsidiary. And it simply wrong-headed in believing that a giant monopolist would do well in the new world of competition. So far, the experience has been sobering for AT&T, share-holders. managers, employees, who had to lower their expectations and run much harder than before.

It is important not to confuse the health of AT&T with that of American telecommunications. The infrastructure is alive and well, and a glance at the trade press with its torrent of announcements of services, products, ventures and market entrants shows the extraordinary and feverish vitality that characterizes all parts of

it communications. Indeed, precisely the vitality of this process economic will undermine the rationale for the divestiture, namely the competitive separate οf sectors monopolistic telecommunications from each other. As institutional. artificial this [separation crumbles under technological reality and from the regulators' desire to give local exchange companies new sources of revenue for rate relief in residential and rural telephony, increasingly divestiture may become a mere size-reduction of a giant firm, into a set of mini-AT&Ts, coupled with liberalization, and less of a targeted elegant and functionally economic separation that its Justice Department originators, together Judge Greene, had envisioned. Indeed. latter is at present busily trying tide by this stem to restrictions on the regional holding These efforts demonstrate companies. that the lessons of the past -- the futility of structural solutions in a dynamic environment -- have not been learned.

European Reactions

It is unfortunate for the mutual learning process across the Atlantic that much of the analysis interprets US telecommunications events selectively. An example of one-sided interpretation of U.S. events is the official reply by German Bundespost to a German Monopoly Commission report: admission of private terminal equipment in the US| leads to an unbearable subscriber simple situation for the and maintenance repair equipment and network could now be in different hands...[P]rivate equipment primarily as found telephones, and is in terms of quantity negligible...[T]he abolition of the operating monopoly of the operating

companies has definitely brought about predominating disadvantages for customer, since the service has become qualitatively worse and considerably more expensive..." [4] Statements this kind originate in a defensiveness towards implicit challenges to a monopoly status quo which are a threat the broad coalition that supports This coalition, and benefits from it. can be termed the which "postalindustrial complex, "includes first of all the government itself through the PTTs are frequently staffed by PTTs. extremely able and experienced public and technologists who are servants of their effective advocates They are joined by the institutions. eguipment manufacturing industry, trade unions, intellectuals, the poor, the elderly, and the political left, "good government" advocates, and Increasingly, it can also inhabitants. the computer and count on technology industry.

European experts were bewildered by the dismantling of AT&T. With an engineer's ofpoint view, saw the elimination of end-to-end service as detrimental to a system which is orderly, continuous centrally planned, all while satisfying the needs of the economy and fulfilling social policy functions. The fact that the US voluntarily chose to dismember a system has been such hard understand, seen and it is arbitrary, inefficient, and resulting from politics and ideology rather than technolog~ ical engineering and One point that considerations. frequently heard is that American telecommunications have always been inherently different from those Europe, and thus developments in the US are not relevant to Europe. The assertion that the U.S. system is different usually means that the American system is run for a profit, while in Europe telecommunications serves the greater

welfare of the society. There serious flaws in this simple contrast. Telecommunications policy in the United States has embraced social goals including much of this century. principle of universal service that assures an affordable access for rural areas and for the poor. The percentage penetration of telephones in the United States has been higher than in any other country, despite the fact that vast areas of America are sparsely and that a much larger populated. percentage of the population is poor, or outside the migrant, language of communication.

Nor do the West European structures reflect a greater social United than, those in the concern where basic subscriber States. are approximately equal or lower, distance rates are markedly lower, where "life line" service is often available at very low rates. In many Eruopean countries, no rate distinction residential is made between business customers, while in the United States business customers usually pay double the residential rate. Rural in the United States telephony variety of ways, subsidized in a primarily through the rate structure and by low-interest loans from the from the federal government.

of internal the size While subsidies is likely to decline as the U.S. system moves towards cost-based does not imply it pricing, subsidies will disappear, though they may be financed differently in the The protection of affordable future. universal service is a high political priority, and Congressional and state regulatory reactions -- as in the dispute over the timing of telephone access charges--indicate that their remains great sensitivity for the maintenance and protection of universal service, even within a liberalized setting.

is nevertheless clear that the deregulation and divestiture of AT&T are having a negative effect. European observers frequently see this as part the economically conservative policies of the Reagan administration, which is regarded as a pro-business restoration. The American political view is that deregulation is not a zero-sum redistributory game, and that it is likely to generate overall gains efficiency due to increased dynamism. The truth is probably in between. Reports of the somewhere effects of the AT&T divestiture stress the negative impact on local rates; however, one must also take account of the cost reductions in the U.S. due to competitive pressures, or of the low cost of service in general. example, AT&T claims to have cut production cost on a telephone receiver from \$2.30 to \$.99 within one month. In June, 1984, AT&T announced goal of cutting its cost in all the manufacturing divisions by 20~25% within a year[6]. The company has closed four of its older plants and consolidated others, imposed a pay freeze on its 114,000 management level employees (for a \$185 million saving). encouraged the early retirement of thousands of its workers (the goal 13,000), and layed off thousands of others. It even sold the headquarters its manufacturing arm Western with such evident Even Electric. slack, an O.E.C.D. report found that switching equipment in the U.S. public had cost only about one third to one half of the European average [7]. long distance transmission, operating costs for AT&T have been estimated by a respected financial analyst to be 34.2 cents per revenue minute, while for its MCI they were only 17.9 cents ríval indicate [8]. This seems to substantial potential for cost savings in the old AT&T system, which the PTTs had admired as a paragon of efficiency,

and AT&T is working very hard to reduce this gap. The French daily Le Monde, in a series of articles in January 1984. views the AT&T divestiture as part of a general American economic offensive against Japan and Europe, joining the already ubiquitous presence of IBM. [9] This theme had also been presented in the widely noted French Nora-Minc Report of 1978 [10]. observations contain some truth. the simplistic thesis although is misleading. Quite clearly, the U.S. liberalization policy is a response to widespread desire to induce economic growth and innovation through market forces. The Japanese challenge may be used as a domestic argument within the United States, but there is no lack of other arguments.

The global-strategic view of U.S. deregulation, moreover, does coherently explain why the American technological offensive would advanced by reducing the power and the of scale of its major economies telecommunications company. Assuming a global offensive strategy, it seem more sensible to unleash AT&T with all of its resources rather than reducing them and tying up the for years with reorganization. Unless, of course, one accepts the U.S. premise that a competitive environment creates underlying strength for the world It is not clear why a export markets. Reaganite big business policy would be promoted by the dismemberment of the biggest business of them all. Furthermore. the Reagan administration's ideological priorities are arguably not the driving force in U.S. policy, but only a facilitator in the implementation of the fall-out from satellite communications, microwave transmission. and the computerization of telecommunications.

A bewildering multitude of decision making bodies has been

involved in the setting of American telecommunication policy--the FCC, the fifty-one state regulatory commissions, the Department of Justice, the National Telecommunications and Information Administration, Judge Greene, Congress, and the Department of State. active in some aspect of is telecommunications, and most are not coordinated with the others' well actions. Hence it is surprising find any general policy direction It would have been reasonable to all. expect that these various decisionmaking bodies would have in effect neutralized each other, following the course of U.S. national energy policy, which has been disgracefully paralyzed. this has not occurred telecommunications. The direction of U.S. telecommunications policy has been one of fairly steady liberalization. Though conflicts between federal and state persist regulatory and legislative bodies over the preservation of the cross-subsidy to residential rates, a compromise is likely. American telecommunications policy making resembles a war with a hundred battle fronts. But for all its untidiness, the American policy process accommodated changes rapidly. This fact may have something to do with the greater pressures for changes in the United States, but also results from the general nature of decentralized decision-making, can move incrementally, and rapidly and pragmatically.

The Equipment Field

To some European observers the American developments bode for a future that is characterized, in the words of an OECD report, by "the emergence under the leadership of the US information industry, of powerful integrated service firms, consortia or closely-knit groups of companies, combining computing power of their own without

ability to develop new high technology products for export. Given the GATT restrictions on the use of tariffs. non-tariff barriers become important. Such protectionism telecommunications has been traditional in most industrialized countries, the result that few domestic markets are open, thus greatly limiting intra-European trade opportunities and fragmenting the market. In order to overcome this, there have proposals to open the European domestic markets to other European manufacturers, while restricting the North Americans and Japanese.

But trade is a two-way street. Ironically, the very US liberalization which is raising European anxiety and protectionism in its wake is providing European manufacturers with opportunities in the US equipment The Bell companies, which market. prior to divestiture had relied largely on Western Electric equipment, are now free to obtain equipment from other suppliers, and are indeed actively doing do.

Ιn the forefront of European companies active in the US market is Plessey, a British company which has acquired the public switching business of the American manufacturer Stromberg-Carlson; likewise, the Swedish firm, Ericsson, major player in а international telecommunications export market, has been actively approaching the new Bell regional operating companies, after already establishing itself among American independent telecommunications companies.

The opening of the American market is among the best news that European firms have had for a long time. As mentioned, other European markets are largely closed to them, even within the Common Market, and demand in the Third World, including

precedent, unrestricted access countless data bases, assured usage of worldwide networks, expertise āΠ unparalleled in variety and together with unique marketing and managerial abilities. This new new organizational configuration has - so far - no equivalent in either Europe or It may well turn out to be superior, in power terms, to the oldfashioned monopolies and oligopolies. [11] But with all this challenge it is also important for Europeans to that US realize deregulation offering them extraordinary business new opportunities.

In the telecommunications equipment market, the AT&T divestiture led to the emergence of AT&T as a competitor in European markets, a sharp break with the past. For more than fifty years AT&T stayed out of international equipment activities, despite its being the largest equipment manufacturer in the world.

With constraints removed, and with the need to diversify its scope of AT&T operations. has embraced aπ international orientation, and has begun to see Western Europe as a potentially lucrative market. To gain local acceptance, the company has restricted itself to alliances with European domestic companies, in effect establishing beachheads. Given the nationally protected nature of the European market and AT&T's lack of international experience, this strategy seems to be the most realistic way for to establish its presence in AT&T Europe. Two major instances are AT&T's purchase of 25% of Olivetti in early 1984, and its cooperative agreement with Philips.

Variants of protectionism are considered as the one way to ensure Europe control of its own telecommunications destiny and its

the oil producing countries, declined. In addition, many countries of the development use telecommunications to spur their domestic electronics firms, and willing to rely on a less than state-of-the-art technology suitable to local servicing skills. these countries have set up Often domestic equipment manufacturers with government protection similar to - those _ Thus there is a very in Europe. limited number of markets for telecommunications equipment which are The OECD estimated that really open. in 1982 open markets accounted for less than 10% of the world market [12]. fact, by far the largest such market is now the US. The irony is that some advocates of protectionist policy telecommunications equipment now are beginning to seek their fortunes in the newly-liberalized US market! realistic to expect that such asymetric situation cannot continue for long. It is highly unlikely that the US will stand by passively if Europeans can freely sell equipment in the US, while American manufacturers are shut out of European markets. Given the presently ballooning US trade deficit in general, undoubtedly the US would pressure the Europeans for reciprocity. Thus for Europeans the opportunity to enter the US market is in fact a double-edged sword, because it threatens by its dynamics to bring about a reduction of European firms' own protected position.

Transatlantic Telecommunications Services

American deregulation has particularly affected international telecommunications services. In this area, US policy has restructured the rules of the game radically within a short period of time, thus forcing their European correspondents on the other side of the Atlantic to adjust

unwillingly to the new situation.

Historically, US regulation of telecommunications firms had carved up market into distinct the global segments, each assigned to different These included domestic carriers. telephone carriers, domestic telegraph carriers. domestic satellite carriers. international voice carriers, international record carriers (IRCs): international satellite carrier, marine the international consortium, and carriers for domestic satellite communications. non-voice Though AT&T participated in several of these market segments, as a rule the and firms were different sectors segregated from each other.

On the European side, things were much less complex. The typical arrangement was for the domestic PTT to control all communications, domestic or international, voice or record.

In the past, FCC regulation had not been particularly restrictive with respect to international communications At the same time, the market segmentation had led to a lack competition, as well as to substantial profit margins. This situation was largely unstable, perhaps because of the high profitability, and cracks began to appear. The artificial nature the market segmentation evident and led to policy responses within a relatively short time. In a series of decisions in 1979-80 [FCC 79-842; 80-523; 80-585], the FCC largely eliminated the rules which prohibited AT&T and the IRCs from entering each The International others' markets. Record Carrier Competition Act [Public Law 97-130, Dec. 29, 1981] eliminated the separation between domestic and international telegraphy that had kept Western Union and the IRCs apart.

In the satellite field, the FCC

continued this trend in 1982 [PCC 82-357] by permitting Comsat to go beyond its carriers' carrier limitation and -service customers directly. This was contingent on a action major restructuring of Comsat [FCC 82-372] to separate its unregulated competitive activities from those that were left requlated. At the same time, the FCC was considering direct access of carriers other than Comsat to Intelsat, bypassing Comsat. The FCC also decided to limit, as far as possible, in the allocation ο£ communications circuits between cable ลกด้ satellites, and to rely competition.

In the Second Computer Inquiry [77 FCC 2nd 384 (1980)], the deregulated enhanced telecommunications services that go beyond "basic" regulated transmission. In the Telenet-Tymnet decision [FCC 82-377], the Commission reaffirmed that Second Computer Inquiry decision extended also international to telecommunications services [13]. implication was that enhanced. communications services from the US to other countries would not be subject to facilities Or rate οf regulation.

Proceeding to the next step, the FCCreconsidered its attitude toward Intelsat cartel arrangements and the liberalization of the international satellite transmission market. extension αf its well-established domestic policy. the FCC accepted applications from several private entrepreneurs for licenses to operate trans-Atlantic private satellite systems.

American deregulation thus threatened the protected status quo in an especially profitable sector. Neither Intelsat nor its constituent organizations wanted to be whittled

down by competition, and therefore advanced the argument of cross-subsidization, since profits from the high density trans-Atlantic and North Pacific routes subsidize the low density routes. European PTTs were also concerned about the threat that competition on trans-Atlantic routes would pose to their own profitable international service.

To defend the present system, they pursue various defensive strategies against the potential entrants. The first of these can be described as an "up-link" strategy, the aim of which is to prevent the FCC from granting a license to any private applicants, on the basis of the Intelsat Agreement, distinguishing them from various regional satellite systems such as Arabsat and Nordsat.

The second strategy centers on the "down-link" by eliminating the satellite carriers' ability to connect into European national networks. The PTTs attempt to maintain a unified front of all European countries would a beachhead by American prevent entrants or, if that is not possible, to prevent it from becoming a transfer point to other European countries. As with every cartel-like agreement, it is only as strong as its weakest link. Some country would probably find it to to serve as advantage telecommunications hub, and to permit downlinks from non-Intelsat carriers. prevent backdoor such liberalization, other countries could block retransmission ŧο try But it is questionable arrangements. whether such restrictions would enforceable or whether they would be In a factually similar leqal. European governments, invoking case, CEPT and CCITT rules, had attempted to impose restrictions on the use of Britain as a hub for private British telex bureaus. However, the European Commission in an anti-trust proceeding resoundingly struck down these attempts as a violation of the intra-European competitive rules of the Rome Treaty establishing the EEC. (The case is on appeal at this writing.) [14]

In the area of telecommunications services, the emergence of MCI and other potential international carriers challenges the orderliness of carefully protected international telecommunications regime. There are. however, potential benefits Europeans from this situation. the only address within their countries for AT&T, MCI, and others, PTTs are in a position to choose which American carrier will be allowed access to their market, and can play off -- or "whipsaw" -- the rival American carriers aqainst each other to advantageous operating agreements for their users. For example, instead splitting revenues 50-50 customary, they could demand a 60% cut. In recent years, the Benelux and Scandinavian countries have invited bids. To prevent whip-sawing, the FCC - 1977 has since required - that international settlement arrangements must be uniform for identical routes, thereby officially enforcing American cartel settlement OD agreements.

The new carriers are less than happy with these anti-whipsaw rules. In order to be admitted into otherwise hostile territory, the American would-be entrants need to offer attractive deals to the PTTs. Their ability to compete with AT&T for PTT business is severely reduced by this type of rule. AT&T's competitors thus argue that although the PTTs may benefit from whipsawing, at the same time they may be "infecting" themselves with this competition.

Of the new United States long-

distance carriers, MCI has particular been active in pursuing ability to provide an end-to-end international voice traffic in the same way that AT&T does today. The company has actively pursued negotiations with a good number of countries. By mid-1984 it had largely concluded agreement with Australia. In Europe, negotiations with Belgium, Greece, and Spain had progressed substantially, and the company was at the stage of testing equipment.

Α related but distinct issue created by American deregulation is the ability of PTTs to choose among the new American carriers for communications originating in Europe. An American customer can select between AT&T, MCI, GTE or Sprint, to name a few, as his carrier of choice. But when a European places a call to an American city it is his national PTT which can decide which US long-distance company carries the call within the US and thus realizes the revenue. Until now, all voice traffic was routed through AT&T. how should the PTTs react to the competitive environment in the US?

One possibility, of course, would be to give European users the choice to indicate which American long-distance carrier they prefer, for example by assigning several country codes to the each corresponding to a carrier, rather than the present single code. Although this would add costs and technical problems, these could be made up by the American firms, would be more than willing to gain such traffic. It is unlikely that PTTs will present grant users the ability to among US carriers for American leg of their transatlantic calls. Instead, negotiations center around the PTT allocating traffic among AT&T and its competitors.

Just as in the equipment market,

deregulation of US telecommunications provides Europeans with new opportunities to enter the American market, since the liberalized environment makes it possible European carriers to acquire or set American long-distance companies. British company Cables and Wireless PLC now-owns TDX systems, an American discount long distance company. France Cables and Radio, the international subsidiary of the French PTT, in 1983 acquired shares of Argo Communications, an American inter-city carrier [15]. Such entry can be accomplished without the need for international agreements or negotiations. Under the Second Computer Inquiry decision, enhanced unrequlated. service providers are Thus Pacnet Communications, which had been acquired by the British firm Cable and Wireless, requested a certain PCC status to provide overseas customers with American resale packet switched network services [16]. With such a Pacnet would not have had to status. file with the FCC, and could even have acquired satellite circuits from Comsat without requiring authorization. arrangement creates the possibility that European PTTs could not only set up their own unregulated distribution networks in the US, but also at the same time restrict their competitors in US from entering the domestic markets in Europe.

Although the Pacnet application was withdrawn, similar actions are a clear possiblity in the future. This situation again raises serious issues of reciprocity and imbalance.

American deregulation is plainly having its effects in international markets. The US policy shifts were triggered by technological developments that were exploited by entrepreneurs and underwritten by financial institutions, many of which were drawing heavily on European funds. Much

of the dynamism and resources are consumed by the exploitation of new opportunities, or, in the domestic case of AT&T and the Bell companies, by adjustment to the new environment massive internal through However, it seems reorganizations. that the US domestic clear liberalization will telecommunications | the already strong accelerate in tendencies for change Since marginal international market. telecommunications in relatively low, systems that are set up the US can extend abroad with relative ease. Long distance satellite service providers can readily expand into international traffic; data-base suppliers also could easily service the European market, as could equipment manufacturers. In short, the energies that brought about the shift in US policy towards deregulation will not stop at the US border. This trend is "postal-industrial" by the coalition as a major threat to the time-tested of the stability mutually beneficial coexistence. The technological opportunities are not pass Europe without likely to generating internal challenges to the traditional telecommunications system. This is not to say that the American model can be applied in Europe, given the differences in tradition, outlook, and political realities. But changes the US, unavoidable and their interactions across the Atlantic, are likely to nudge along a liberalizing process in which PTTs are still the controlling force. US deregulation, though partly a threat to the European status quo, is also an opportunity for the export of hardware and services, and for the exercise of a monopsonistic bargaining position. Reciprocal trade goods and services, more than political economic theories ormay set off a partial pressure, of US liberalization to the entry telecommunications firms, anđ

softening of the divergence in telecommunications on the two sides of the Atlantic. As this process unfolds, defensive and offensive reactions are unfortunately likely to be acrimonious; cooperation based on the understanding of the dynamics of the other side's development, however, cannot be avoided, and it provides the foundation for transition into the next phase of global communications.

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