

## List of Contractor Reports

---

Copies of the following contractor reports completed in support of this assessment will be available in spring 1990 from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4650. The views expressed in these reports are those of the contractors and not necessarily those of OTA, the Technology Assessment Board, or U.S. Congress.

1. Raymond U. Akwule, George Mason University, "Review of the Communications Policies and Practices in Nigeria," July 1987.
2. Stuart N. Brotman, "Integration in Key Communications Industries: Business and Policy Considerations," June 1988.
3. Christopher Burns, Christopher Burns, Inc., "Communications Systems in the United States," December 1986.
4. Donal Carbaugh, University of Massachusetts (Amherst), "Communications Systems: Exploring the Role of Information Technologies," December 1986.
5. Kan Chen, University of Michigan, "Anticipating Changes in Communications Technologies: A System Scientist's Methodology," December 1986.
6. Daniel J. Czitrom, Mount Holyoke College, "Goals of the U.S. Communication System: An Historical Perspective," September 1987.
7. Brenda Dervin, Ohio State University, "Categorization of Communication Users," September 1987.
8. Joseph W. Duncan, The Dun & Bradstreet Corp., "Forecasting Telecommunications Technology," December 1986.
9. Martin Edmonds, University of Lancaster, "Defense Interests and United States Policy for Telecommunications," June 1988.
10. Deborah Estrin, University of Southern California, "Communications Systems for an Information Age: A Technical Perspective," December 1986.
11. David S. Evans, Fordham University and CERA Economic Consultants, Inc., "Economic Aspects of Technological Change in the Communications Industries," December 1986.
12. J.D. Eveland, Technology Applications Research, "Stakeholder Relationships in the Communications System," October 1987.
13. Heather E. Hudson, University of San Francisco, "Communication Policies and Practices: India," July 1987.
14. Richard B. Kielbowicz, University of Washington, "The Role of Communication in Building Communities and Markets: An Historical Overview," November 1987.
15. Richard B. Kielbowicz, University of Washington, "Societal Values That Have Guided the U.S. Communication System: A Short History," August 1988.
16. Vincent Mosco, Carleton University, "The Communications System From a Regulatory Perspective," December 1986.
17. Abbe Mowshowitz, Technology Impact Research Inc., "Communication and Comparative Advantage in the Business Arena: Operations and Technological Development" July 1988.
18. Greta S. Nettleton, "Review of the Communications Policies and Practices of Brazil," July 1987.
19. Howard Rheingold, "New Tools for Thought: Mind-Extending Technologies and Virtual Communities," December 1986.
20. Nathan Rosenberg, Stanford University, "Reflections on the Future of the Telecommunications Industry," December 1986.
21. Daniel T. Schiller, University of California (Los Angeles), "The U.S. Communications Industry in Transition," December 1986.
22. Jennifer Daryl Slack, "Historical Review of the Concept of Communication Needs With Respect to Technology," November 1987.
23. Gerald Sussman, Emerson College, "Communication Systems for an Information Age: Singapore," July 1987.
24. Lucja Swiatkowski, "Communications in Poland," July 1987.
25. Paul E. Teske, "State Regulation of Telecommunications," July 1987.
26. Deborah G. Tumey, Citibank, N. A., "Financial Institutions' Communications Systems," December 1986.
27. Langdon Winner, Rensselaer Polytechnic Institute, "Information Regimes and Political Vision," December 1986.

## Appendix D

# List of Acronyms

---

|          |  |         |   |
|----------|--|---------|---|
| ADR      | —alternative means of dispute resolution   | FCC     | —Federal Communications Commission                          |
| ANI      | —automatic number identification   | FDDI    | —fiber distributed data interface                           |
| ANSI     | —American National Standards Institute   | FRC     | —Federal Radio Commission                                   |
| AP       | —Associated Press  | GATT    | —general agreement on tariffs and trade                     |
| AT&T     | —American Telephone & Telegraph Co.  | GOSIP   | -Government Open Systems Interconnection Profile            |
| ATTC     | —Advanced Television Test Center   | HBO     | —Home Box Office  |
| ATS      | —Advanced Television Services  | HDTV    | —high definition television                                 |
| B-ISDN   | —broadband integrated services digital network                                       | IBN     | —integrated broadband network                               |
| Bellcore | —Bell Communications Research Inc.   | IEC     | —International Electrotechnical Commission                  |
| BOC      | —regional Bell operating company   | HLC     | —Information Industry Liaison Committee                     |
| BSA      | —basic service arrangement   | INS     | —information network system                                 |
| BSE      | —basic service element   | ISDN    | —integrated services digital network                        |
| C-SPAN   | —Cable Satellite Public Affairs Network  | ISO     | —International Standards Organization                       |
| C3I      | -Command, Control and Communications and Intelligence                                | JTC1    | —Joint Technical Committee 1                                |
| CAD/CAM  | -computer-aided design/manufacturing   | LAN     | —local area network   |
| CATV     | --community antenna television   | LATA    | —local access and transport area                            |
| CBEMA    | —Computer Business Equipment Manufacturers Association                               | LEC     | —local exchange carrier                                     |
| CD-ROM   | -compact disk--read only memory  | LPTV    | —lowpower television  |
| CCITT    | —International Telegraph and Telephone Consultative Committee                        | MAP     | —manufacturing automation protocol                          |
| CEI      | -comparably efficient interconnection  | Mbps    | —megabits per second  |
| CEPT     | -Conference of European Postal and Telecommunications Administrations                | MFJ     | —Modified Final Judgment                                    |
| CERT     | -Computer Emergency Response Team  | MIDI    | —musical instrument digital interface                       |
| CIAJ     | —Communications Industry Association of Japan  | MITI    | —Ministry of International Trade and Industry               |
| CO-LANs  | —central office local area networks  | MMDS    | —multichannel multipoint distribution system                |
| COMSAT   | —Communications Satellite Corp.  | N-ISDN  | —narrowband integrated services digital network             |
| CPB      | —Corporation for Public Broadcasting   | NARUC   | —National Association of Regulatory Utility Commissioners   |
| CPE      | -customer premises equipment   | NASA    | —National Aeronautics and Space Administration              |
| CLASS    | -customer local area signaling service   | NCIC    | —National Crime Information Center                          |
| DARPA    | —Defence Advanced Research Project   | NCS     | —National Communications System                             |
| DBS      | --direct broadcast satellite   | NCTA    | —National Cable Television Association                      |
| DCA      | —Defense Communications Agency   | NETS    | —Nationwide Emergency Telecommunications Service            |
| DoD      | —Department of Defense   | NIST    | —National Institute for Standards and Technology            |
| DOJ      | —Department of Justice   | NOAA    | —National Oceanic and Atmospheric Administration            |
| DS       | -directory services  | NRC     | —National Research Council                                  |
| ECMA     | —European Computer Manufacturing Association   | NSA     | —National Security Agency                                   |
| ECSA     | —Exchange Carriers Standards Association   | NSF     | —National Science Foundation                                |
| EDI      | -electronic data interchange   | NS/EP   | —National Security/Emergency Preparedness                   |
| EOP      | —Executive Office of the President   | NSDD-13 | —National Security Decision Directive-13                    |
| EOSAT    | —Earth Observation Satellite Co.   | NSTAC   | —National Security Telecommunications Advisory Committee    |
| ESPRIT   | —European Strategic Programme for Research and Development in Information Technology | NTIA    | —National Telecommunications and Information Administration |
| ETSI     | —European Telecommunications Standards Institute                                     | Oftel   | -Office of Telecommunications                               |

|            |   |        |   |
|------------|---|--------|---|
| ONA        | —open network architecture                      | SONET  | —synchronous optical network                                  |
| OTP        | —Office of Telecommunications Policy            | SS7    | —signaling system 7   |
| OSI        | —open systems interconnection                   | SWIFT  | —Society for Worldwide Interbank Financial Telecommunications |
| OSS        | —operating support systems                      | TCP/IP | —transport control protocol/internet protocol                 |
| PBX        | —private branch exchange                        | TECS   | —Treasury Enforcement Communications System                   |
| P c        | —personal computer                              | TOP    | —technical and office protocol                                |
| PPV        | —pay-per-view                                   | UHF    | —ultra high frequency   |
| <b>PTT</b> | —postal, telegraph, and telephone authority     | VCR    | —videocassette recorder                                       |
| Puc        | —public utility commission                      | VHF    | —very high frequency  |
| RACE       | —Research for Advanced Communications in Europe | VISN   | —Vision Interfaith Satellite Network                          |
| REA        | —Rural Electrification Administration           | VT     | —virtual terminal   |
| RBOC       | —regional Bell operating company                | WATTC  | —World Administrative Telephone and Telegraph Conference      |
| RFD        | —rural free delivery                            |        |   |
| RHC        | —regional Bell holding company                  |        |   |
| SDNS       | —Secure Data Network Systems                    |        |   |
| SNA        | —system network architecture                    |        |   |