

## 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.
60. 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
Pc	—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		