LIST OF NETWORKS AVAILABLE

Inter-university Computer Network
University Library Network
High-Energy Physics Research Network (HEPnet)
University Medical Information Network (UMIN)
Space Science Research Network (STEP, SPAN)
Earthquake Research Network (JERNET)
Internet
Facsimile Network
Inter-university Electronic Mail Network (SIMAIL)
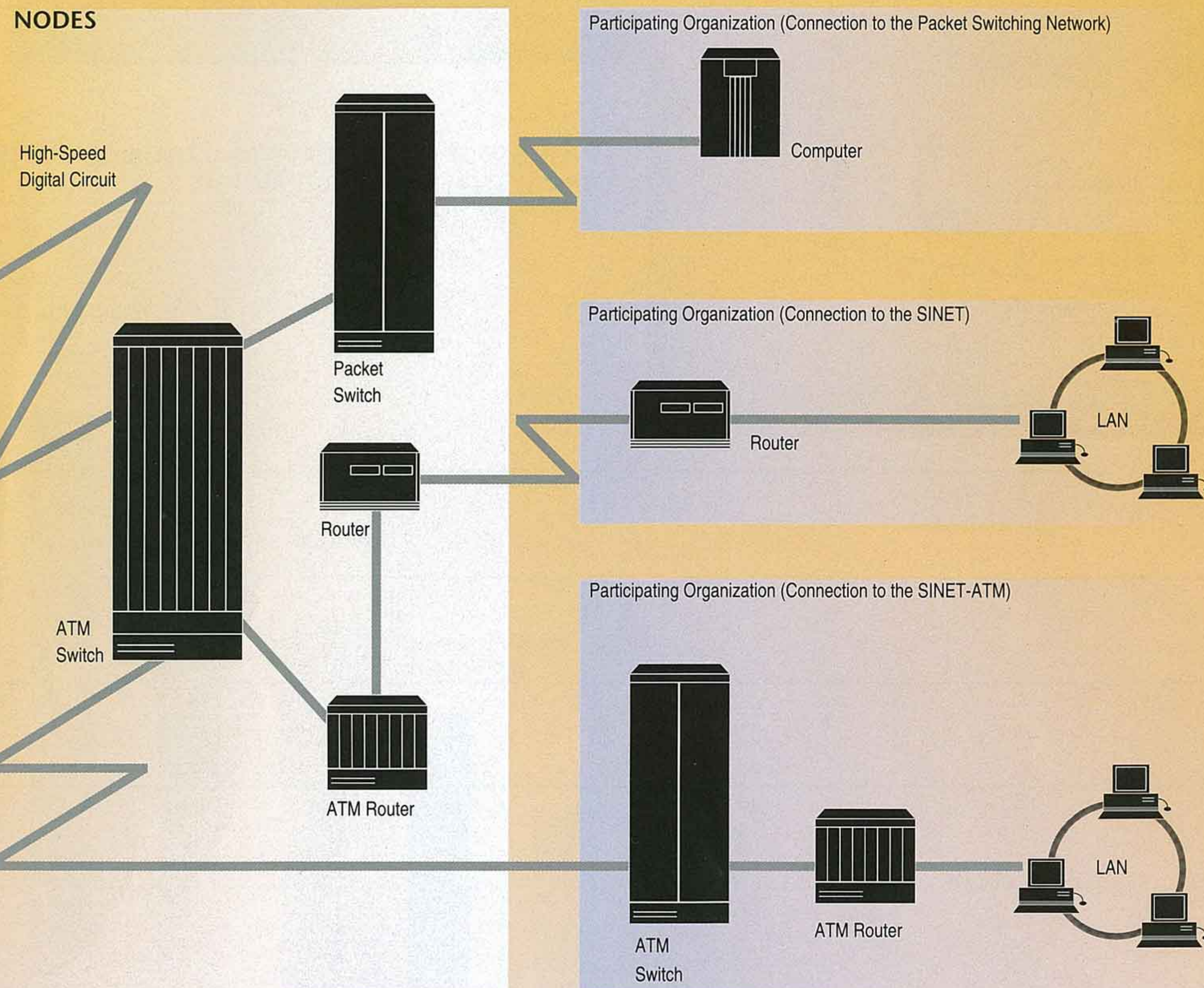Others

AVAILABLE FOR:

National, Municipal and Private
Universities, Junior Colleges, Colleges of Technology

Inter-university Research Institutes

Organizations related to the Ministry of Education, Science, Sports, and Culture

Organizations affiliated to the Agency of Cultural Affairs

Other National/Municipal Testing and Research Organizations

Research Institutes of Special-status Corporations

Academic Research Corporations

Educational Institutions equivalent to University

Research Sponsoring Corporations

NACSIS-CAT Participating Organizations

Academic Societies

NACSIS SYSTEM OVERVIEW

NODES

High-Speed Digital Circuit

Packet Switch

Router

ATM Switch

ATM Router

Participating Organization (Connection to the Packet Switching Network)

Computer

Participating Organization (Connection to the SINET)

Router

LAN

Participating Organization (Connection to the SINET-ATM)

ATM Switch

ATM Router

LAN

SCIENCE INFORMATION NETWORK

This network makes it possible for qualified researchers of universities to access scientific information at locations anywhere in the world.

NACSIS

SCIENCE INFORMATION NETWORK OVERVIEW

The Science Information Network, consisting of two networks, a packet switching network and an Internet backbone (called SINET), is Japan's largest network for academic researchers and it offers communication link of 50 & 6 Mbps speed in Japan, and 6 Mbps (U.S.A.) and 2 Mbps (Thailand) speed for overseas.

PACKET SWITCHING NETWORK
This is used as an inter-university computer network to interconnect general-purpose computers on campuses, as a university library network for the preparation of union catalog databases and the inter-library loan (ILL) systems, and as a group network in specific research areas.

INTERNET BACKBONE (SINET)
This is a dedicated high-speed trunk line (Internet backbone) that interconnects the campus information networks (campus LANs) at universities and other institutions in Japan. It also provides interconnection with overseas academic research institutions.

Sapporo
Hokkaido University

Kitami
Kitami Institute of Technology

Hirosaki
Hirosaki University

Nagasaki
Nagasaki University

Fukuoka
Kyushu University

Higashi-Hiroshima
Hiroshima University

Tottori
Tottori University

Kanazawa
Kanazawa University

Niigata
Niigata University

Sendai
Tohoku University

Kumamoto
Kumamoto University

Matsuyama
Ehime University

Okayama
Okayama University

Kobe
Kobe University

Nagano
Shinshu University

Kagoshima
Kagoshima University

Kyoto
Kyoto University

Osaka
Osaka University

Nagoya
Nagoya University

Chofu
The University of Electro-Communications

Kiryu
Gunma University

Okazaki
Okazaki National Research Institutes

Tokyo-2
Tokyo Institute of Technoltgy

NACSIS

Tsukuba
University of Tsukuba

U.S.A.

Tokyo-1
The University of Tokyo

Yokohama
Yokohama National University

THAILAND

Chiba
Chiba University

Naha
University of the Ryukyus
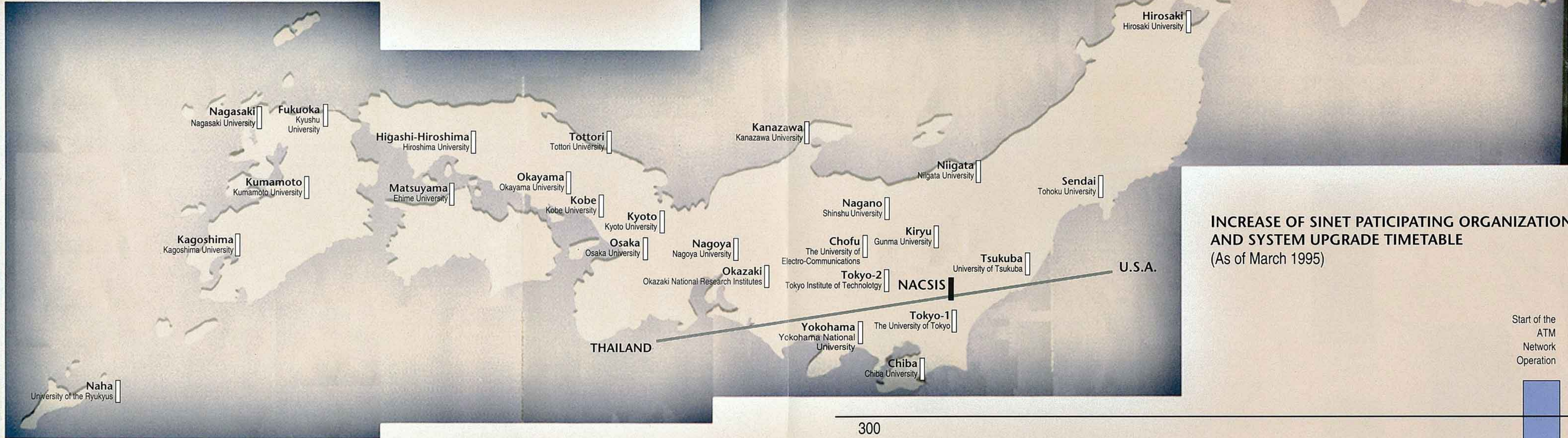
INCREASE OF SINET PATICIPATING ORGANIZATIONS AND SYSTEM UPGRADE TIMETABLE
(As of March 1995)

28 ACCESS NODES
The Science Information Network sets up 28 access nodes across the country and interconnects them by high-speed digital lines. Installed at each node are network facilities to access it from the computers, LANs, etc. at nearby institutions.

ELECTRONIC CONFERENCE
Electronic conferences are possible by linking up campuses through the network. The construction of the network at the national level using the asynchronous transfer mode (ATM) communications technology opens the door to high-speed communication involving large volume of data, and it will further support the multimedia age.

E-MAIL, BULLETINBOARD, NETWORK NEWS, IMAGES...
Through connection with campus LANs at universities throughout the country, researchers and librarians all over Japan can exchange information through electronic mail, electronic bulletin boards, network news, etc.

OVERSEAS LINK
The Science Information Network is also hooked up with overseas networks through our dedicated international lines, and academic research information is being distributed at the international level through them.

Chart (participating organizations, 1986–1994):

- 300
- 250
- 200
- 150
- 100
- 50

- 1986: 5 — Start of the Packet SwitchingNetwork Installation
- 1987: 17
- 1988: 46
- 1989: 107 — Connection to the National Science Foundation, U.S.A.
- 1990: 142 — Connection to the British Library
- 1991: 180
- 1992: 228 — Completion of the Packet Switching Network
- 1993: 270 — Start of SINET Installation
- 1994: 342 — Start of the ATM Network Operation