

Activities of the MMAC PC

Masahiro Morikura
NTT

morikura@mhosun.wslab.ntt.co.jp

MMAC:

The Multimedia Mobile Access Communication Systems Promotion Council

Objective:

The objective of the council is to realize high bit rate mobile access communication systems through investigations of system specifications, demonstrative experiment and popularization activities.

Establishment: December 4, 1996

Number of member: 130 companies

September 1998

doc.: IEEE 802.11-98/312

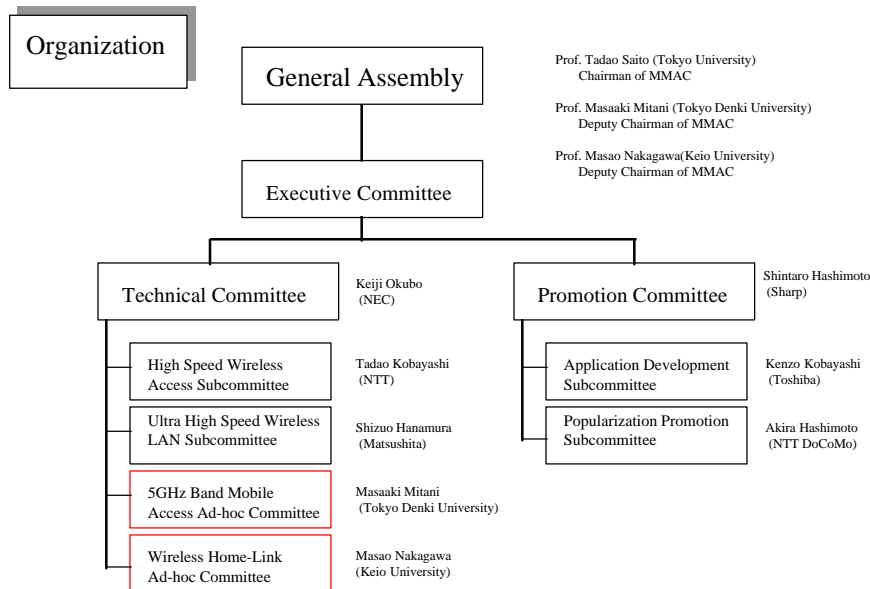
130 Members as of September 1, 1998

- | | | |
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| <p>Advanced Mobile Telecommunication Technology Inc.
 ADVANTEST CORPORATION
 ALPINE ELECTRONICS, INC.
 ALPS ELECTRIC CO., LTD.
 ANDO Electric Co., Ltd.
 ANRITSU CORPORATION
 Asahi Chemical Industry Co., Ltd.
 Asahi National Broadcasting Co., Ltd.
 ASTEL TOKYO CORPORATION
 CANON Inc.
 CASIO Computer Co., Ltd.
 Central Japan Digital Phone Co., Ltd.
 Central Research Institute of Electric Power Industry
 CITIZEN WATCH CO., LTD.
 Clarion Co., Ltd.
 DDI Corporation
 DDI Tokyo Packet Telephone, Inc.
 Denki Kogyo Co., Ltd.
 DENSO CORPORATION
 Deutsche Telekom K. K.
 Digital TU-KA Chugoku Co., Ltd.
 Digital TU-KA Kyushu Co., Ltd.
 DSP Communications (Japan), Inc.
 Fuji Television Network, Inc.
 Fuji Xerox Co. Ltd.
 FUJITSU GENERAL LIMITED
 FUJITSU LIMITED
 FURUNO ELECTRIC CO., LTD.
 FUTABA CORPORATION
 HEWLETT-PACKARD JAPAN, Ltd.
 Hitachi Cable, Ltd.
 Hitachi Demshi Ltd.
 Hitachi, Ltd.
 ICOM INCORPORATED
 IDO CORPORATION
 Ikegami Tsushinki Co., Ltd.
 Insei K. K.
 IWATSU ELECTRIC CO., LTD.
 JAPAN APPROVALS INSTITUTE FOR
 TELECOMMUNICATIONS EQUIPMENT
 Japan Radio Co., Ltd.
 Japan Telecom Co., Ltd.</p> | <p>KAJIMA CORPORATION
 KANDENKO CO., LTD.
 KANSAI CELLULAR TELEPHONE CO., LTD.
 Kansai Digital Phone Co., Ltd.
 KAYTEC LTD.
 KIKUSUI ELECTRONICS CORPORATION
 Kokusai Denshin Denwa Co., Ltd.
 KOKUSAI ELECTRIC CO., LTD.
 KYOCERA CORPORATION
 Kyocera DDI Institute of Future Telecommunications, Inc.
 Kyushu Matsushita Electric Co., Ltd.
 LG Information & Communications, Ltd.
 Lacent Technologies Japan Ltd.
 MARUBENI CORPORATION
 Matsushita Communication Industrial Co., Ltd.
 Matsushita Electric Industrial Co., Ltd.
 Matsushita Electric Works, Ltd.
 Matsushita Research Institute Tokyo, Inc.
 Microsoft Co., Ltd.
 Mitsubishi Electric Corporation
 Mitsubishi Materials corporation
 Murata Manufacturing Co., Ltd.
 Nagano Japan Radio Co., Ltd.
 National Mobile Radio Centers Council
 NEC Corporation
 NEC Home Electronics, Ltd.
 NEC Mobile Communications, Ltd.
 New Japan Radio Co., Ltd.
 NGK INSULATORS, LTD.
 NHK JOHO NETWORK
 Nihon Cement Co., Ltd.
 NIHON DENGYO KOSAKU Co., Ltd.
 Nihon Sun Microsystems K. K.
 Nippon Motorola Ltd.
 Nippon Telegraph and Telephone Corporation
 NISSAN MOTOR Co. Ltd.
 Nishiko Corporation
 Nokia Japan Co., Ltd.
 NTT Central Personal Communications Network Inc.
 NTT DATA CORPORATION
 NTT Mobile Communications Network, Inc.
 NTT Software Corporation</p> | <p>Okii Electric Industry Co., Ltd.
 OLYMPUS OPTICAL CO., LTD
 PIONEER ELECTRONIC CORPORATION
 RADIO EQUIPMENT INSPECTION AND
 CERTIFICATION INSTITUTE
 RICOH COMPANY, LTD.
 Samsung Japan
 SANYO Electric Co., Ltd.
 SEIKO EPSON CORPORATION
 SHARP CORPORATION
 SHOWA ELECTRIC WIRE & CABLE CO., LTD.
 Sony Corporation
 SUMITOMO ELECTRIC INDUSTRIES, LTD.
 Sun Corporation
 Symbionics Developments Ltd.
 TAITO CORPORATION
 TAIYO YUDEN CO., LTD.
 TDK CORPORATION
 TEC CORPORATION
 Telesay Japan Corp.
 Texas Instruments Tsukuba R&D Center Ltd.
 THE FURUKAWA ELECTRIC CO., LTD.
 The Saawa Bank LTD.
 TOA Corporation
 TOKYO Digital Phone Co., Ltd.
 TOKYO ELECTRIC POWER COMPANY, INC.
 TOKYO FM BROADCASTING CO., LTD.
 TOKYO TELECOMMUNICATION NETWORK CO., INC.
 Tokyo Telemesssage Inc.
 TOSHIBA CORPORATION
 TOYO COMMUNICATION EQUIPMENT CO., LTD.
 Toyo Corporation
 Toyota Central Research & Development Laboratories, Inc.
 TOYOTA MOTOR CORPORATION
 TU-KA Cellular Tokyo Inc.
 TU-KA Phone Kansai Inc.
 Victor Company of Japan, Limited
 Yokogawa Electric Corporation
 YOKOWO CO., LTD.</p> |
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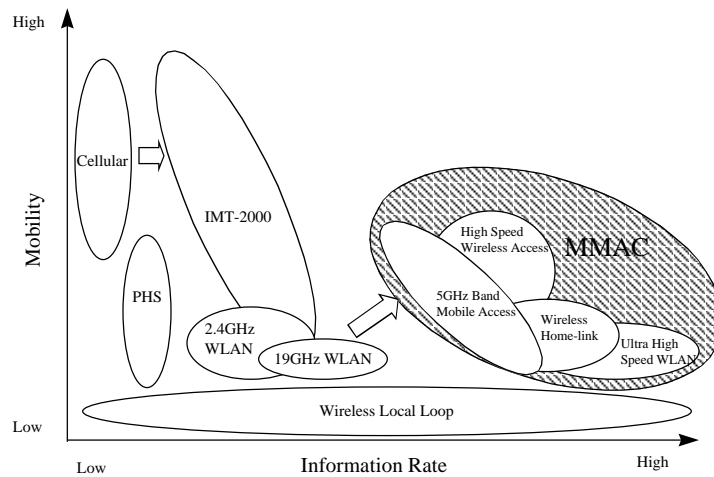


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Major parameters of MMAC

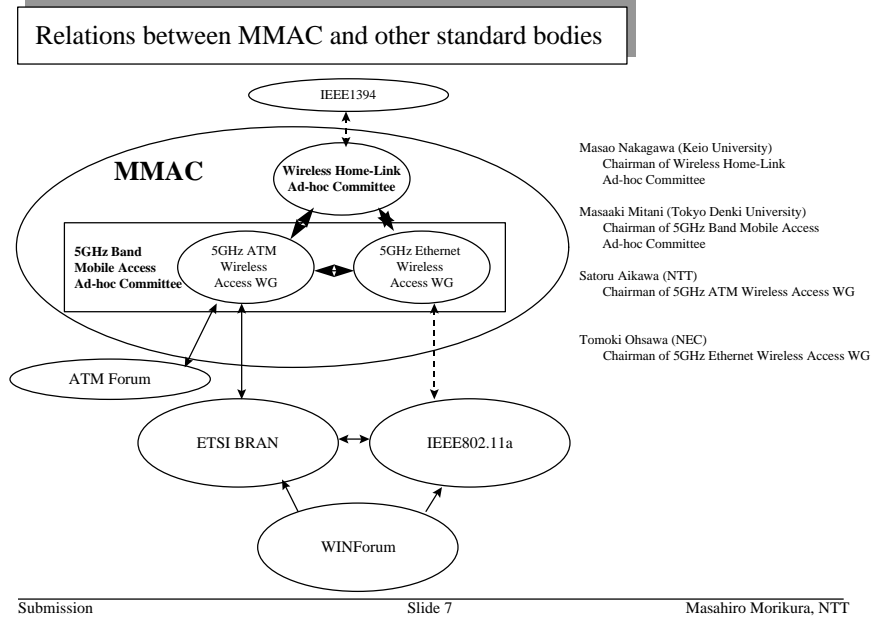
	High Speed Wireless Access	Ultra High Speed Wireless LAN	5GHz Band Mobile Access	Wireless Home-link
Radio frequency bands	2.5/4.0/6.0GHz	60GHz	5GHz	5/2.5/4.0/6.0GHz
Bandwidth	500MHz to 1GHz	1 to 2GHz	>100MHz	>100MHz
Service area	Public Private	Private	Public Private	Private
Connected network interface	ATM	ATM	ATM, Ethernet	IEEE1394 etc.
Data Rate	30Mbit/s	156Mbit/s	20~25Mbit/s	20~100Mbit/s
Terminal equipment	Notebook-type PCs etc.	Desktop PCs and WSS etc.	Notebook-type PCs, Handy Terminal etc.	PCs and Audio Visual Equipment etc.
Mobility	Standstill ~ walking	Standstill	Standstill ~ walking	Standstill ~ walking

Position of MMAC



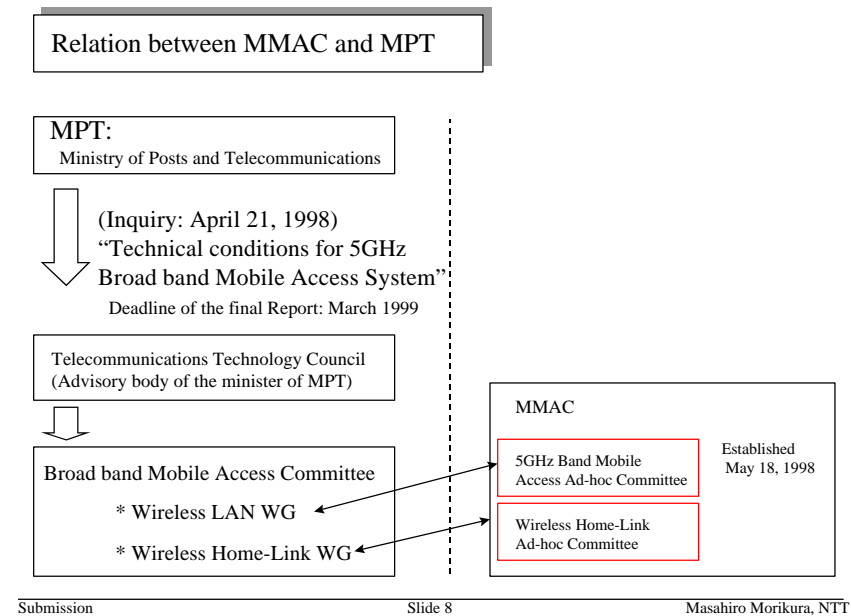
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Action Program of 5GHz Ethernet Wireless Access WG

- (1) Standardization of 5GHz Ethernet Wireless Access System harmonizing with the IEEE802.11a standard (PHY & MAC Layer)
- (2) To solve coexistence issues with ATM wireless LANs and wireless home-link systems
- (3) To make guidelines of frequency resources management in order to maximize system capacity
- (4) Popularization and Promotion of 5GHz Ethernet Wireless Access Systems

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Registered Members of 5GHz Ethernet Wireless Access WG
as of September 1, 1998

ANRITSU CORPORATION
Clarion Co., Ltd.
DENSO CORPORATION
FUJITSU GENERAL Ltd.
Intel K. K.
IWATSU ELECTRIC Co., Ltd.
KAYTEC Ltd.
Kokusai Denshin Denwa Co., Ltd.
(KDD)
KOKUSAI ELECTRIC Co., Ltd.
Kyocera DDI Institute of Future
Telecommunications, Inc.
Matsushita Communication Industrial
Co., Ltd.
Matsushita Electric Industrial Co., Ltd.
Matsushita Research Institute Tokyo, Inc.

Mitsubishi Electric Corporation
NEC Corporation
Nippon Motorola Ltd.
Nippon Ericsson Ltd.
Nippon Telegraph and Telephone Corporation
(NTT)
NTT Mobile Communications Network, Inc.
(NTT DoCoMo)
Oki Electric Industry Co., Ltd.
SHARP CORPORATION
SHOWA ELECTRIC WIRE & CABLE
Co., Ltd.
Sony Corporation
Toyota Central Research & Development
Laboratories, Inc.

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The Multimedia Mobile Access Communication
Systems Promotion Council

c/o Association of Radio Industries and Businesses (ARIB)
14F. Nittochi Bldg., 1-4-1, Kasumigaseki, Chiyoda-ku,
Tokyo 100-0013, Japan

Phone +81-3-5510-8598 Fax +81-3-3592-1103

Email mmac@arib.or.jp

Home Page <http://www.arib.or.jp/mmacc/>