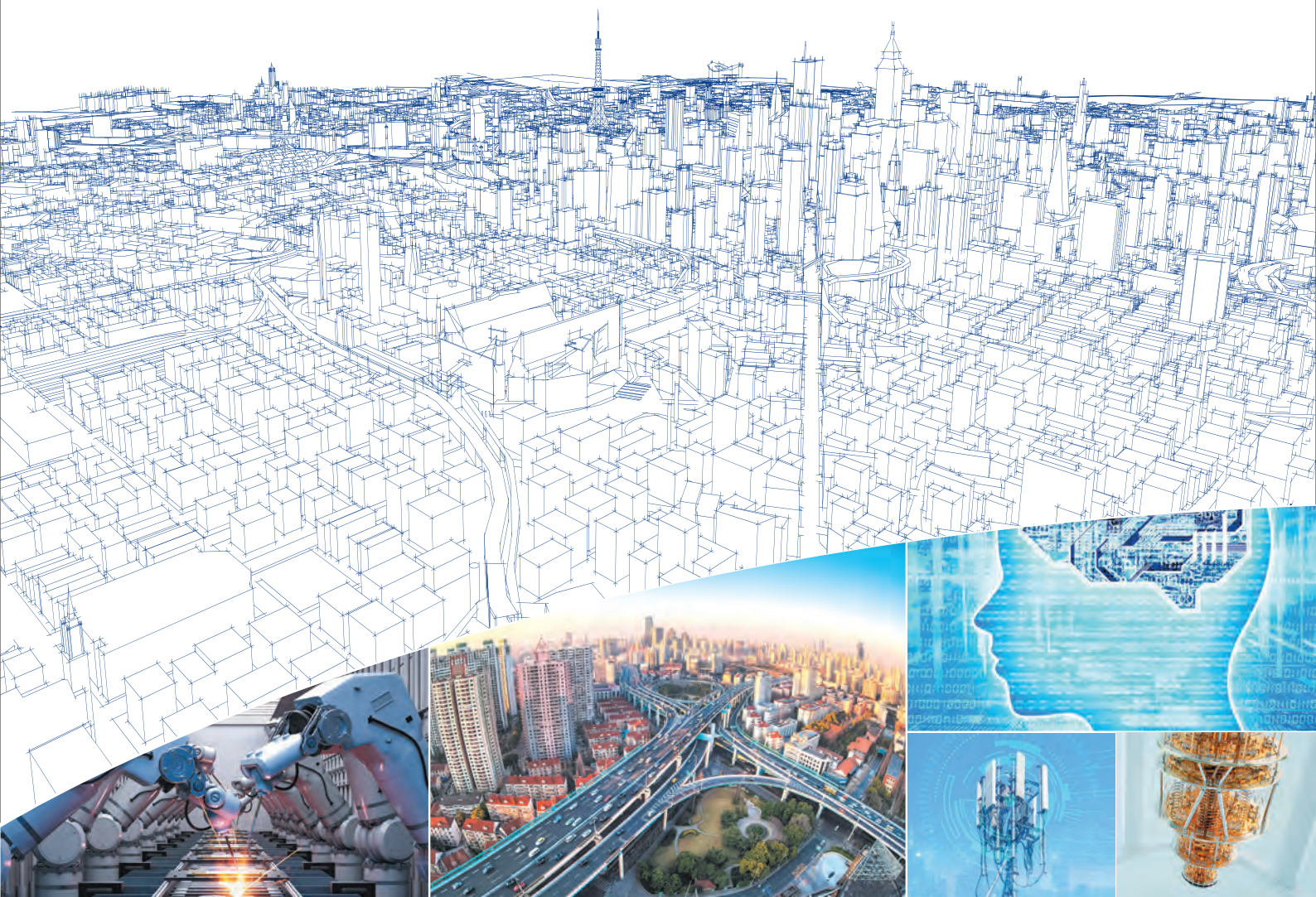
SINCE 1997

Today, for our members

MCPC

Mobile Computing Promotion Consortium



Pursuing cutting-edge DX solutions with world-leading wireless technology to achieve breakthrough development.

With the evolution of 5G (6G), the diversification of mobile information terminals (smartphones, IoT edge devices, wearables, etc.), the advancement of IoT systems, and the enhancement of big data processing and AI utilization, mobile technology has become increasingly important as a key technology for creating a DX (Digital Transformation) society. To realize a more convenient and prosperous society, MCPC is committed to technical activities, awareness-raising, and human resource development to expand the utilization of mobile technology.

MCPC Chairman:Yasuhiko Yasuda
Professor Emeritus, The University of Tokyo/
Professor Emeritus, Waseda University

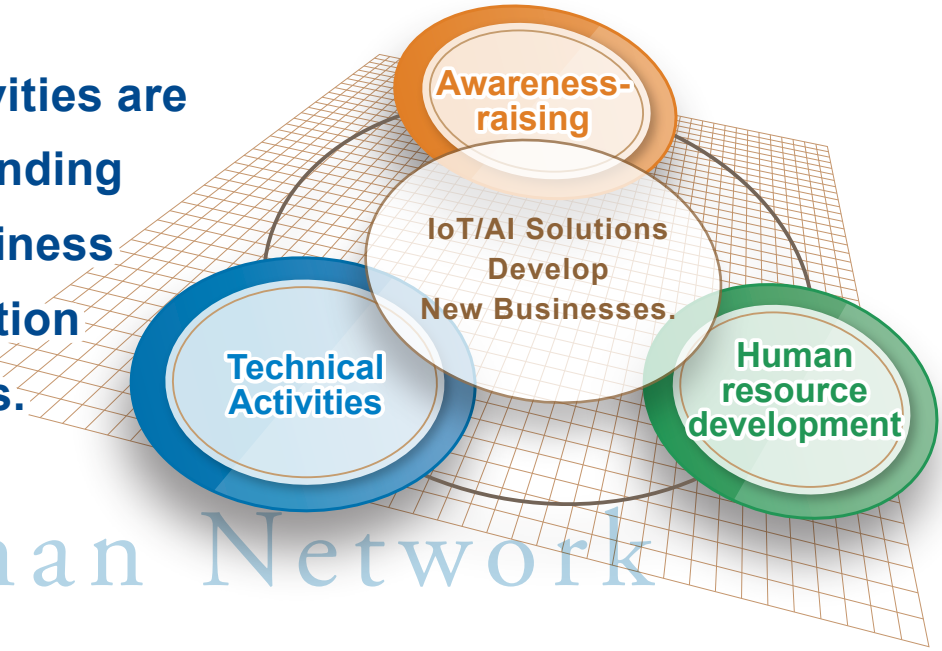
Mission

We aim for the further development of the mobile society through technical standardization, promotion, customer support, human resource development, networking, and information from overseas.

MCPC works toward achieving DX and GX (Green Transformation) by developing and expanding the utilization market for Mobile/IoT/AI. We are strengthening activities such as addressing technical issues, researching operational challenges, promoting development, standardization, interoperability verification, awareness-raising, and human resource development. Furthermore, we strive for DX market formation and expansion through IoT/AI solutions and the advancement of the mobile utilization environment, in collaboration with organizations such as the USB Forum, Bluetooth SIG, and various foreign embassies in Japan.

MCPC

MCPC's practical activities are accelerating and expanding the DX promotion business through mobile utilization by member companies.



Technical Activities

We are working on the standardization and connectivity verification of interfaces for a wide range of wireless networks, including WAN, LAN, and NFC.

STD : Standard
GL : Guideline
TR : Technical Reference

Terminal Interface Standard Specifications

- STD-001-V2CS MCPC STD-001 Ver.2.0: AT Command Checker & Simulator (Software)
- GL-001 Ver.1.0 (Japanese version): 3G-AT Command Implementation Guideline
- And many others

USB Interface & Safety Design Guidelines for Smartphones/Tablets

- GL-008: MCPC USB Hands-free Interface Specification Ver.1.2.1
- GL-009: MCPC USB Service Switching Procedure Specification Ver.1.0
- TR-021: MCPC USB Interface Safety Design Guideline Ver.2.0.3
- TR-023: MCPC Mobile Device Safety Design Guideline Ver.3.2
- TR-024: MCPC Guideline for "Safety Precautions" in Mobile Devices Ver.1.90
- And others

Interface Guidelines for Smartphones/Tablets and External Equipment

- GL-006: MCPC ME UART Equipment Connection Specification Ver.2.0
- GL-006: MCPC ME UART Equipment Connection Specification Ver.2.0Annex B: Evaluation boards for verification are available for loan. MCPC USB/UART Equipment Connection Specification Ver.1.0 Demonstration Software.
- And others

In-vehicle Interface Standard Specifications

- GL-010 Ver.1.0.1: MCPC USB Interface Specification for In-vehicle Communication Equipment Ver.1.0.1 Japanese
- TR-013 Version 1.00 (j): USB Application to Car Electronics Version 1.00 (j)
- And many others

Promotion of Mobile Device and IoT Security

- Research, study, and creation of explanatory manuals (guidelines).
- Mobile Device and IoT/M2M Security Seminars.
- Publication of survey reports

"Actual Survey of General Users' Awareness of IoT Security Guidelines"
"Network Construction Techniques Digest"
"Image Data Informatization Technology"
"IoT Business Models through Case Studies"

Bluetooth Technical Reference

In collaboration with JASPAR and the Mobile Audio Council.

- TR-008: MCPC Bluetooth Multi-Connection Technical Reference Ver.1.2(e)
- TR-009: Bluetooth AVRCP Implementation Guideline for Compound AV Equipment Version 1.00
- TR-011: Multi Codec Implementation Guideline for Bluetooth AV Profile Version 1.0
- TR-015: vCard implementation guidelines for Bluetooth profiles Version 1.00
- TR-022: Implementation guidelines for Bluetooth/WLAN Coexistence
- TR-025: Implementation guidelines for Bluetooth Interoperability Issues Version 1.00
- TR-026 Bluetooth WLAN Coexistence Technical Reference Version 1.0 Japanese
- TR-027 Bluetooth SBC Parameters Recommendation Technical Reference Version 1.0 English
- TR-028: Bluetooth LE Technical Reference for Interoperability Version 1.00

Connectivity & Interoperability Verification

We conduct interoperability verification for Bluetooth (built-in) products developed by member companies. (Conducted for each profile: Classic, Low Energy, LE Audio)

Promotion of Quantum Computer Utilization

Researchers and developers from universities, companies, and consultancies gather to explore the utilization of Quantum Computers (focusing on Quantum Annealing), identify challenges, and introduce use cases through seminars and booklets. We also visit domestic R&D centers, including the RIKEN Center for Quantum Computing (RQC), to inspect actual quantum computers and exchange opinions.

「RIKEN Quantum Computer "Ei"」
Copyright; RIKEN Center for Quantum Computing

「Quantum Processor Chip」
Copyright; RIKEN Center for Quantum Computing

Technology Study Sessions for Members

Study sessions and seminars by top-tier expert lecturers on the latest technologies.

- Generative AI
- Quantum Computing
- Nano-computers
- Drones
- Case studies
- other cutting-edge technologies

MCPC formulates specifications and guidelines for mobile/IoT-related technologies.

English documents are also proposed as global standards in cooperation with the U.S. WTA (Wireless Technologies Association), USB Inter-Forum, and Bluetooth SIG.

https://www.mcpc-jp.org/news/#tab04

Awareness-raising

Initiatives for Safety and Security of Mobile Device Users

MCPC is engaged in various activities to protect the safety and security of mobile device users. Activities include preventing connector burnout, formulating comprehensive safety standards for mobile devices, and promotions to encourage correct usage.

■Mobile Charging Safety Certification Activities

To ensure safe use of mobile devices, MCPC established a safety certification system in August 2016 for charging equipment such as AC adapters, USB cables, and mobile batteries, in collaboration with four domestic mobile carriers. Mobile Charging Safety Certification recognizes that a product complies with this certification after passing tests prescribed by MCPC. Applicants can use the Mobile Charging Safety Certification Logo on their products, allowing users to clearly identify that the product meets MCPC standards. As of April 2026, 109 products have obtained this certification logo.

■Safety awareness activities

For users, we introduce precautions for safe use through our website and flyers, including cautionary videos and explanations of the mechanisms behind event occurrences (e.g., wet charging), to promote correct usage. For businesses, we provide materials for safety awareness and conduct promotions using logos and catchphrases to inform about the dangers of "wet charging" and "impact on batteries",MCPC will continue various activities to ensure the safety and security of mobile devices, which have become indispensable life infrastructure, and IoT devices, which are increasing in importance as social infrastructure.

SME / Venture Support

Providing PR opportunities for companies with advanced and excellent technologies in the DX field.

DX Business Promotion

We offer proposals for social issue resolution and operational efficiency through business transformation using technologies like 5G, Local 5G, the Metaverse, and Generative AI. To announce results to the market, we hold workshops and publish handbooks.

Training and courses for companies

We conduct training and courses for companies toward DX promotion. These include the L5G (Local 5G) Practical Training Course, where participants can acquire immediately useful knowledge and know-how, and the DX Introduction Certification Training, which allows participants to acquire general basic knowledge of DX and construction know-how from latest cases in one day to obtain certification.

Inter-Embassies IT&Mobile Forum（IEMF）

Support for member companies' overseas information development and business matching through exchange of mobile and IoT technology and business information with foreign embassies in Japan.

Human Resource Development

In line with the market expansion of Mobile & IoT/AI solutions, it is important to develop Mobile & IoT/AI engineers with the technical level to optimize system components, plan, build, and improve operations. MCPC responds to these market needs through training sessions and certification program for "Mobile System Technology", "Wireless IoT Planner" and "IoT System Technology" which are essential for DX promotion. These activities are recommended by many companies and organizations and supported by Minister of Internal Affairs and Communications.

Mobile System Technologies Certification Program

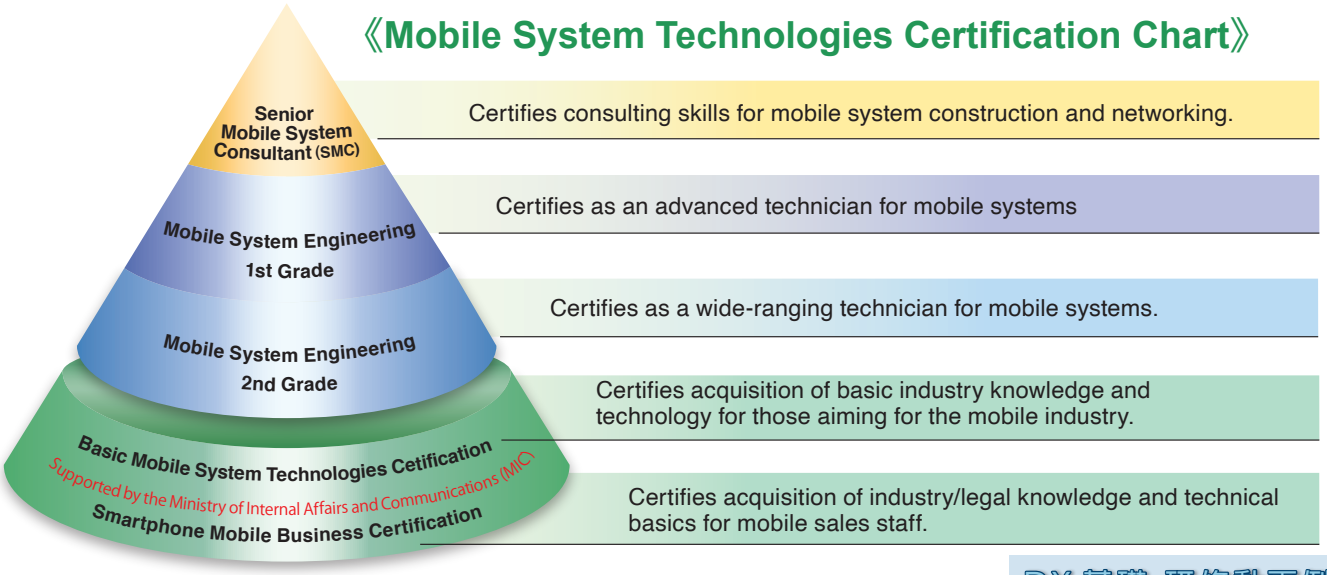
This is a technical certification exam covering the theory and practice of major technologies from mobile to IoT/AI. The system is highly regarded by the IT and ICT industries and is recognized as a recommended qualification by many major companies, including mobile carriers, computer manufacturers, and software vendors. Approximately 89,000 people have taken the exam (as of March 2026), positioning it as a "Standard Qualification for the ICT Industry."

In recognition of these activities, MCPC was awarded the 75th 'Radio Day' Minister for Internal Affairs and Communications Award (Group) in 2025. In March 2010, the IEEE ComSoc evaluated and recommended the MCPC certification system and its content.

Mobile System Technologies Certification Program

- **Held: 5 certification grades,Twice a year (First half / Second half).**
- **Exams:**
  Smartphone Mobile Business Cetification & Basic Mobile System Technologies Cetification: 60 questions / 60 minutes each.
  Mobile System Engineering 2nd Grade: 100 questions / 100 minutes.
  Mobile System Engineering 1st Grade: 3 subjects :38 questions each / 60 minutes.
  Senior Mobile System Consultant (SMC): Certified Training, 30-minutes essay exam.
- **Prerequisites:**
  Smartphone Mobile Business Certification , Basic Mobile System Technologies Certification and Mobile System Engineering 2nd Grade have no specific requirements.
  Mobile System Engineering 1st Grade is for Mobile System Engineering 2nd Grade successful candidates. Mobile System Engineering 1st Grade uses a subject-based passing system; candidates are certified as 1st Grade qualification holders upon passing three subjects.
- **Official Textbooks:** (Photos)
  Mobile System Technologies Text: Expert Edition (for 1st Grade)
  Mobile System Technologies Text (for 2nd Grade)
  Mobile System Text Basic (for Basic and Business)

《Mobile System Technologies Certification Chart》



※SMC successful candidates are exempt from the professional course of the IT Coordinator qualification recommended by the Ministry of Economy, Trade and Industry (METI).

DX 基礎 研修動画例

MCPC モバイルコンピューティング推進コンソーシアム
https://www.mcpc-jp.org/

Wireless IoT Planner Certification Program

Supported by the Ministry of Internal Affairs and Communications (MIC)

This certification program is designed for individuals in user companies aiming for the "utilization of IoT systems" using wireless technology. The goal is to enable them to act as core leaders promoting DX/GX by acquiring basic knowledge from IoT introduction to practical application.
There are two types of certification exams: the 'Certified Training' type, which involves a one-day training session based on the official textbook, and the 'Certification Exam' type (CBT), which consists solely of the examination. Candidates can choose the method that best facilitates their path to obtaining the qualification.

Wireless IoT Planner Certification Program

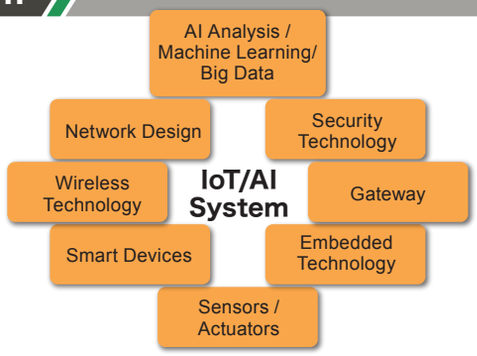
(Certified Training) Lecture + Proficiency Test: 30 questions / 30 minutes
(Certification Exam) CBT Exam: 60 questions / 60 minutes

Eligible Candidates:

- On-site leaders involved in planning and project management at companies, municipalities, various organizations, and regional institutions/agencies.
- Members involved in IT and network design and planning for DX (Digital Transformation) and GX (Green Transformation).
- Members entrusted with operations for the introduction of IoT, 5G, and AI.
- On-site leaders working toward business transformation in companies and municipalities.

IoT System Technologies Certification Program

Personnel required in the IoT/AI era must understand the mechanism of IoT systems and have a bird's-eye view of the whole, in addition to their specialization. To succeed in DX, it is necessary for not only IT engineers but also management, sales, and staff to acquire this literacy.
To meet these requirements, MCPC has systematized 8 core IoT/AI technology areas through the cooperation of many experts and practitioners, and updates the easy-to-learn 'IoT Technical Text.' Furthermore, we provide the 'IoT System Technologies Cetification Program' tailored to the level of the target candidates, from sales and staff to senior engineers.



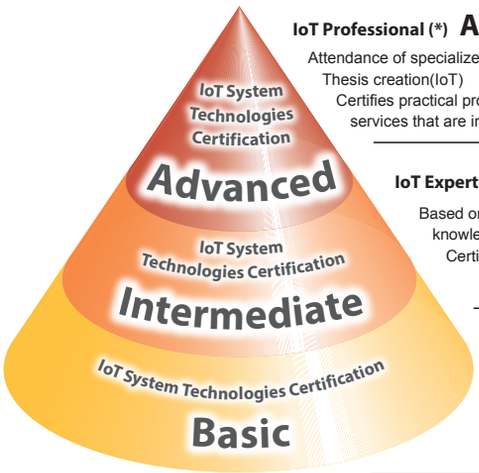
IoT System Technologies Certification Program

- **Held:** Twice a year (First half / Second half) IoT System Certification PJ
- **Exams:** Basic level certification (60 questions / 60 minutes), Intermediate level certification (80 questions / 90 minutes)
- **Prerequisites:** No specific requirements
- **Official Texts:** IoT System Technologies Text (Basic) (Photo left), IoT System Technologies Text (Intermediate) (Photo right)

IoT System Technologies Certification Advanced

- **Held:** Twice a year (First half / Second half)
- **Exams:** Attendance of specialized technical training on IoT system construction/utilization + Thesis creation (2 days).
- **Prerequisites:** Those who meet any of the following:
  MCPC IoT System Technologies Cetification Intermediate successful candidates.
  IPSJ CITP certified information processing engineers.
  Waseda University Smart SE program graduates.

《IoT System Technologies Certification Chart》



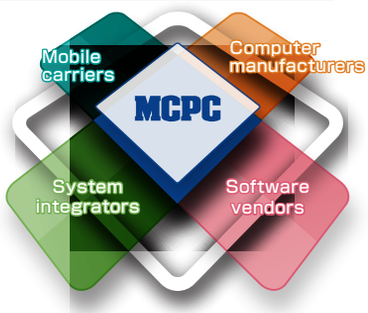
	Target tasks	Target persons
IoT Professional (*) Advanced Attendance of specialized technical training on IoT system construction/utilization + Thesis creation(IoT) Certifies practical professional technology for building advanced IoT systems or services that are industry-specific or span across industries.	・System conceptualization, planning ・Solution development ・Consultation (compiling,instruction, management initiatives)	Senior ICT engineers in user corporations and experienced persons Senior IT/ICT engineers
IoT Expert (*) Intermediate Based on the "IoT Technologies Text," the exam covers technical knowledge related to the construction and utilization of IoT systems. Certifies basic skills for IoT system construction.	・System proposal ・System design ・System construction and operation ・Capable of system proposals	Mid-career employees in user corporations (all departments) SEs in IT and ICT corporations, students (capable of autonomous action)
IoT Advisor (*) Basic For universities, junior colleges, vocational college students, new employees. Certifies basic IoT knowledge	・Understanding basic IoT matters (including terminology)	1st-2nd year employees in user corporations, IT, and ICT companies Sales and staff Students (acting with support)

(*)These are the titles for successful candidates of each certification.

Members

Leading companies in the IoT industry and Japan's representative corporations are participating.

Leading companies and Japan's representative corporations—including mobile carriers, computer hardware and software vendors, system integrators, and automotive-related companies—participate in MCPC, working together to address and solve challenges.



Cooperating Organizations

MCPC works in close cooperation with major mobile and IoT organizations.

Major Domestic Organizations

- **JEITA** — Japan Electronics and Information Technology Industries Association
- **IPSJ** — Information Processing Society of Japan
- **CIAJ** — Communications and Information network Association of Japan
- **JASST** — Japan Society of Next Generation Sensor Technology
- **ARIB** — Association of Radio Industries and Businesses
- **ITCA** — IT Coordinators Association
- **JETRO** — Japan External Trade Organization
- **JVCA** — Japan Venture Capital Association
- **JASA** — Japan Embedded Systems Technology Association

Major Overseas Organizations

- **IEEE (ComSoc) (U.S.)** — The Institute of Electrical and Electronics Engineers
- **Bluetooth SIG (U.S.)** — Bluetooth Special Interest Group
- **IrDA (U.S.)** — Infrared Data Association
- **KOTRA (Korea)** — Korea Trade-Investment Promotion Agency

※In no particular order

Many other cooperating organizations

Organizations

Member companies are moving forward as one to realize advanced Mobile & IoT/AI utilization.

Chairman, Vice Chairman, Auditor

- Secretariat
- Planning & Steering Committee (Chair and Vice-Chair Meeting)
- Human Resource Development Committee (Vocational School DX Promotion WG)
  - Mobile System Certification PJ
  - IoT System Certification PJ
- IPR Committee
- Technology Committee (Mobile Charging WG, Nanocon Application PromotionWG, Home IoT Promotion WG)
- AI & Robotics Committee (Quantum "Cryptographic Communication, Sensors, and Computers" Technology Exploration WG, Medical & Healthcare WG)
- Security Committee
- Wireless System Utilization Committee (Drone WG, School/Municipality Network WG)
- Bluetooth Promotion Committee (ATA WG, BLE/UWB WG, Interoperability WG)
- Business DX Committee
- Promotion and Marketing Committee
  - Mobile Construction DX Study Group
  - Inter-Embassies IT & Mobile Forum (IEMF)

Each committee has established working groups and sub-working groups for specific purposes.

For DX promotion, we establish committees anticipating the expansion of Mobile & IoT/AI.

[Human Resource Development Committee]

We edit and publish textbooks, conduct certification exams, and provide training programs aligned with the scope and level* (skill sets) of knowledge required for building mobile systems and IoT/AI systems, as well as for promoting DX/GX. We also implement initiatives that help vocational school students enhance their DX capabilities and technical skills. (*Senior Mobile System Consultant (SMC)、Mobile System Engineering 1st Grade / 2nd Grade、Basic Mobile System Technologies Certification, Smartphone・Mobile Business Certification、IoT System Technologies Certification Advanced / Intermediate / Basic、Wireless IoT Planner Certification)

[Technology Committee]

We conduct standardization of mobile system technologies, formulation of common specifications (including guidelines), connectivity verification/evaluation, and practical application scenarios. Under this committee, the Mobile Charging WG, Nanocon Application Promotion WG, USB WG, and Home IoT Promotion WG have been established to conduct specialized technical reviews and research, as well as to host technical seminars.

[AI & Robotics Committee]

We conduct research on artificial intelligence, robots, and other technologies, and while envisioning a future unique to Japan, we offer proposals for social issue resolution, industry revitalization, and the creation of new industries. Under this committee, the Medical & Healthcare WG and the Quantum "Cryptographic Communication, Sensors, and Computers" Technology Exploration WG have been established to conduct specialized technical reviews and research, and to host technical seminars.

[Security Committee]

We conduct research on challenges and countermeasures for information security in mobile devices and IoT. We also continue to promote awareness-raising activities, including case studies and countermeasures for information leakage. Furthermore, we create mobile and IoT security guidelines (booklets) and hold security seminars, including topics such as personal information protection, in collaboration with universities and other organizations.

[Wireless System Utilization Committee]

We will promote the spread of wireless systems in the corporate, education, and local revitalization sectors to solve the serious problem of the current shortage of specialists.

Leveraging MCPC's specialized fields, we work on engineer development and business model construction/operation, promoting textbook compilation, information sharing, field test commonality, and promotions. Furthermore, in collaboration with relevant organizations and government ministries, the Drone WG provides the latest information on Level 4 safe operation and flight management for industrial drones, while the School/Municipality WG provides the latest information on Generative AI utilization in schools.

[Bluetooth Promotion Committee]

As the sole and largest Bluetooth promotion organization in Japan, we work closely with Bluetooth SIG to conduct research on the latest technologies, awareness-raising, and interoperability verification for each profile (Classic, Low Energy, and LE Audio), as well as to publish technical reference materials based on verification.

[Business DX Committee]

To lead to the creation of advanced and extensive new markets, we aim for business transformation using the latest technology and data, and work on proposals for social issue resolution and operational efficiency, as well as recommendations to related organizations.

[Promotion and Marketing Committee]

We hold various events for the purpose of domestic and overseas awareness-raising for mobile solutions and the IoT/AI market. These include the MCPC Award to commend excellent systems, the creation of case study collections to revitalize the entire market by featuring successful examples, and hosting seminars for SME/venture business support where companies with excellent systems give lectures. Furthermore, we organize exchange meetings with foreign embassies in Japan (IEMF) to facilitate interaction from a global perspective.

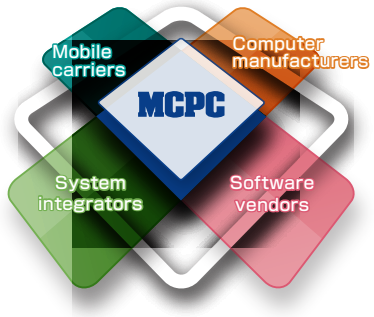
[Mobile Construction DX Study Group]

For companies involved in mobile engineering construction, improving quality, strengthening technology, and enhancing safety measures are indispensable. To this end, we address common challenges among companies and work toward problem-solving. Furthermore, looking ahead toward DX promotion, we will actively engage in human resource development and technological innovation to revitalize the industry.

Contributing to member companies

Member Benefits & Services Invitation to Join MCPC

At MCPC, we are widely recruiting members to participate in various committees—including the Human Resource Development Committee, Technology Committee, AI & Robotics Committee, Security Committee, Wireless System Utilization Committee, Bluetooth Promotion Committee, Business DX Committee, and Promotion and Marketing Committee—to collaborate on promoting IoT/AI and mobile solutions for DX, deepen friendships, expand networks, and effectively utilize the resulting achievements.



Managing Companies: 6 companies

docomo　KDDI　SoftBank

HITACHI Inspire the Next　TOSHIBA　SHARP

Regular Members: 25 companies

AISIN, Allion Labs, CTC, NEC Networks & System Integration, NTT TechnoCross, NTT DATA MSE, MCCI, Kyocera, CREO, Seiko Solutions, Genetech, Sony Group, DENSO TEN, Toshiba Tec, Toyo Corporation, JAMA, Japan Nobel, Panasonic Connect, Faurecia Clarion Electronics, Fujitsu Client Computing, FCNT, Mitsubishi Electric, Mitsumi Electric, Rakuten Mobile, RIC-Telecom

Supporting Members: 90 companies　**Cooperating Members: 45**

As of May 2026

Member Benefits & Services

At MCPC, we carry out a wide range of activities aimed at contributing to the mobile and IoT/AI solutions of our member companies. In addition to providing members with major activity results, such as standard specifications and guidelines, we also disseminate relevant industry information.

Examples of Benefits and Services:

- **Participation in research, verification, and formulation of standard specifications through Technology Committee (Working Group)activities.**
- **Use of specifications, guidebooks, guidelines, and trademarks resulting from committee activities.**
- **Participation in Bluetooth Interoperability Verification workshops.**
- **Free access to MCPC events, case study collections, reports, and industry news.**
- **Provision of latest information on overseas IT/ICT companies (including ventures).**
- **Participation in latest technology study sessions for members and receiving samples of published books.**
- **Member discounts on exams fees for the Mobile System Technologies Certification and IoT System Technologies Certification, as well as on textbook prices.**
- **Priority for Mobile Charging Safety Certification and member discounts for fees.**

DX=5G×AI×IoT

MCPC

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E-mail：msec@mcpc-jp.org

Click here for exam applications, detailed schedules, and other information.

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