

# TELECOMMUNICATIONS TECHNOLOGY ASSOCIATION

## Telecommunications Technology Association

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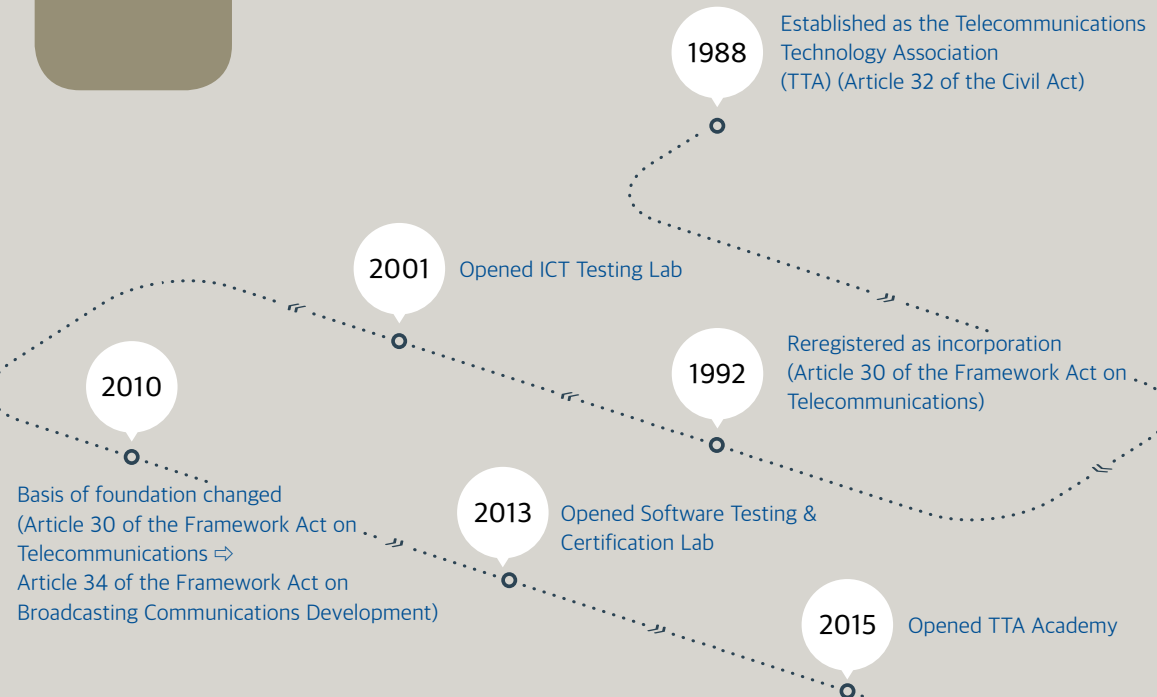


Global Leader in ICT Standardization,  
Testing and Certification

# Global Leader in ICT Standardization, Testing and Certification that Pioneers the 4th Industrial Revolution



## History



## Key Strategies

Lead global ICT standardization

Serve as testbeds to support nurturing new industries

Strengthen foundations to disseminate intelligent information technology

Foster professionals in ICT standards and quality



## Major Activities

- Standardization activities on communication networks, ICT convergence, information security, software and content, broadcasting, radio and mobile communication, and 5G, among others
- Testing and certification of ICT products and services in accordance with the domestic and international standards; development of testing standards
- Training programs to foster professionals for ICT standards and testing and certification
- Support to enhance competitiveness of small and medium-sized enterprises

TTA promotes standardization in ICT fields such as 5G, IoT, UHD, and big data by establishing a global network with overseas standardization organizations.



### Key Standardization Activities

As of end Jun 2019



#### Publish TTA standards (18,191 as of Jun 2019)

#### Support the international standardization and international standard collaboration

- Operate the Korea ITU committee; develop a framework to respond to ISO, IEC and JTC1
- 140 chairmanships in various international standardization organizations (ranked second in the world in the number of ITU chairmanships)
- Participate in the Global Standards Collaboration (GSC), China-Japan-Korea IT Standards Meeting, and other global standardization collaboration programs (3GPPs, oneM2M)
- Have MoUs with 28 overseas standardization organizations including ITU, IEEE, ATSC, GSMA, etc.

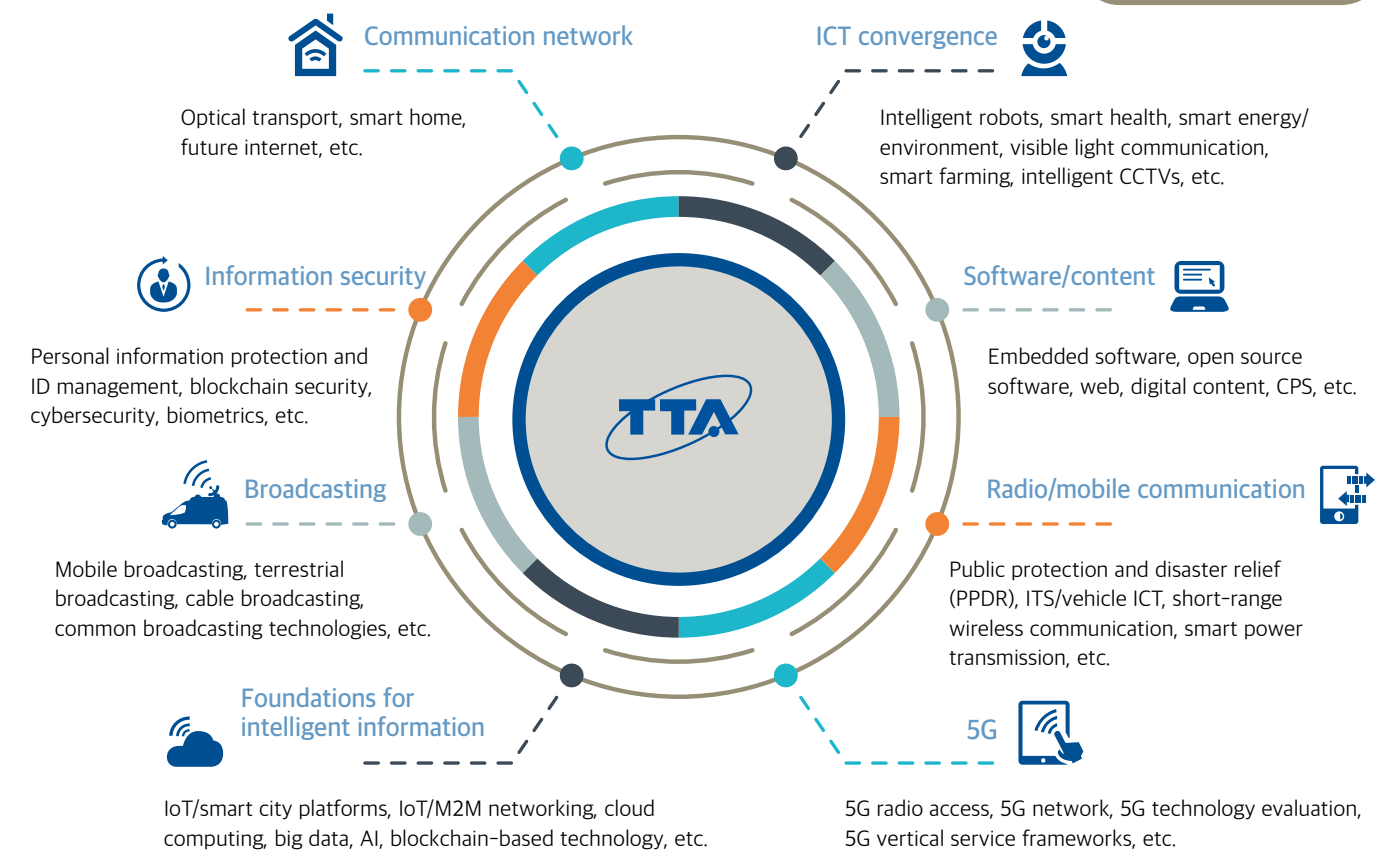
#### Support domestic ICT standardization

- Develop ICT standardization strategy map(15 key technologies in 2017)
- Support domestic ICT standardization fora for collaboration with global de facto standardization organizations (35 fora in 2019)
- Provide ICT standards consulting services for SMEs
- On-site, region-specific lectures on ICT standardization; seminars on standards; and ICT terminology standardization
- Global ICT Standards Conference (GISC)

### Major Activities in Standardization

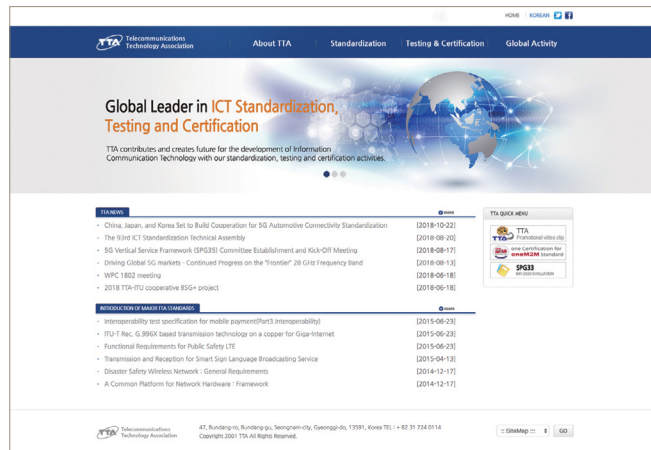
- Develop and revise TTA Standards (by establishing and operating the ICT standardization committees under TTA)
- Establish ICT standardization plans and strategies
- Collaborate with overseas official and de facto standardization organizations
- Support developing a pool of international ICT standards experts and international ICT maestros
- Run the Cooperation Organization for Standards Development (COSD) and the National Secretariat of ICT related committees of ISO, IEC, JTC1 Committees
- Provide consulting services and support for standardization of SMEs
- Promote and distribute ICT standards-related information such as ICT terminology, standards leaflets, etc.

### Major Standardization Areas



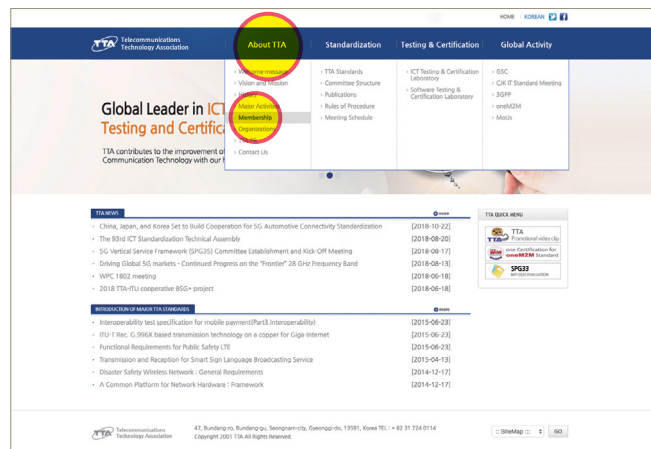
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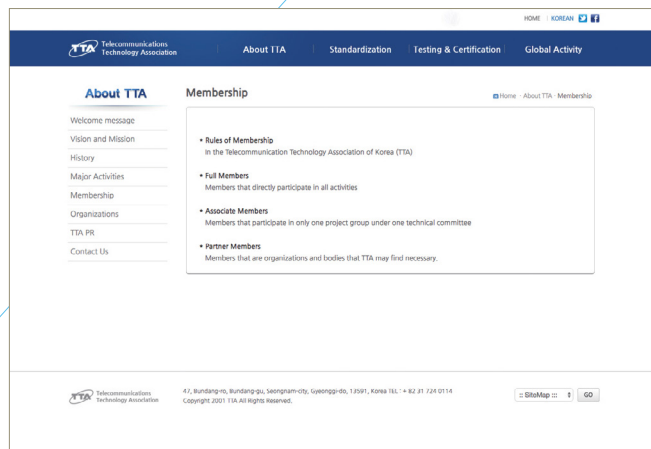


Guidance on participation in the TTA standardization projects

2 About TTA



3 Membership



## Membership benefits

- Participate in ICT standardization committee activities
- Voting rights at TTA Technical Assembly
- ICT standards/technology consulting services
- Discounts on training and events related to standards, testing and certification
- Additional discount offers for testing and certification
- Membership eligibility for global standards cooperation programs(3GPP, 3GPP2, oneM2M)
- Preferential offering of booth spaces at standards-related events
- TTA reports and other publications

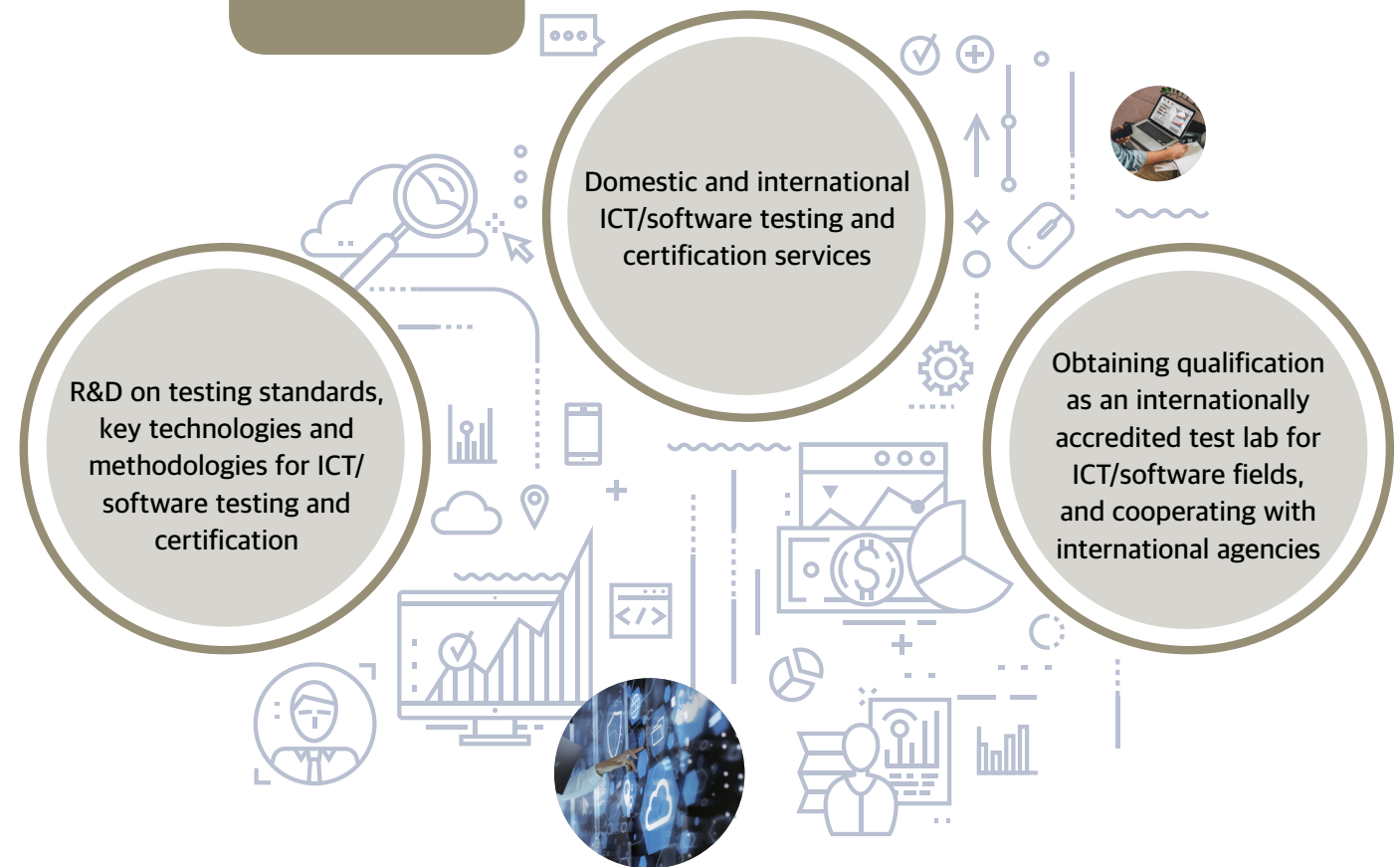
## Testing and Certification

TTA provides world-class ICT testing and certification services and R&D, and also contributes to introducing excellent products to the market and improving the competitiveness of local industries.



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## Major Duties for Testing and certification





Major Activities  
in Testing and  
certification

## ICT testing &amp; certification

## ICT convergent new industries

Smart home/energy, IoT, oneM2M, LwM2M, CoAP, OCF, NB-IoT, LoRaWAN, smart city, AirFuel, WPC, smart healthcare (PCHA/Continua), ICT R&D outcome verification tests, etc.

## Next-generation mobile communication

GSM, WCDMA, LTE(FDD, TDD), LTE-A, 5G, self-supplied devices, OTA(Cellular, A-GNSS, Wi-Fi, MIMO), Vodafone, RSE, NFC, call quality, etc.

## Broadcasting and telecommunications infrastructure

Wi-Fi, Bluetooth, autonomous driving, DSRC, CCC, USB 2.0/3.2, USB Type C, USB Fast Charger, LAN/MAN, Internet telephone, IPv6, network device BMT, security equipment, UHD TV, UHD monitors and mobile devices, IPTV, smart TV, digital signage, Display-Port, SATA, MPEG-H, etc.

## Public safety service

Emergency safety communication network (PS-LTE), integrated railway wireless network (LTE-R), ultra-high-speed wireless communication network (LTE-Maritime), vessel locational signaling (V-PASS), vehicle-based emergency rescue (e-Call), high-power electromagnetic wave protection (EMP), ICT convergence quality certification, emergency call positioning, broadcasting for people with disability (subtitles, video commentary), video security system (CCTV), drones, etc.

## Others

BMT, test-bed support, development support tests, R&D outcome verification

## Software testing and certification

## Software certification

GS certification, TPC/SPC/SPEC internationally accredited performance certification, etc.

## Software tests

Software quality/performance benchmark test (BMT), verification and validation (V&V), information system (SI) quality test, internationalization and localization test of exported software, software interoperability test, source code security weak point diagnosis, high performance computing product validation (HPC), cloud interoperability and quality/performance test, navigation safety performance compliance test, EMVCo test, AI system & reliability testing, etc.

## Consulting

Software safety diagnosis and consulting, CC evaluation consulting, consulting for internationalization and localization of exported software, HPC performance consulting, Cloud Service quality & interoperability consulting, etc.

## Information protection test and evaluation

CC (Common Criteria) evaluation, Information Security Management System (ISMS) certification, public safety communication network security test, FIDO Biometrics & security evaluation, control system safety test, information security readiness assessment, security conformance test, IC reader test, Test for trustworthiness in blockchain based system, etc.

## Test-bed support

Software test-bed support, HPC environment support, etc.

## Support for SMEs

Broadcasting Equipment Test Center, Next Generation Broadcasting & Telecommunication Technology Center, Digital Signage Certification Test Center, Wireless Power Transmission One-Stop Support Center, Global IoT Testing & Certification Center, Sangam Software Testing Center, Yeongnam Software Testing Center, HPC innovation Hub, etc.

Major Testing  
and Certification  
Services

## Internationally accredited tests and certification



## Domestically accredited tests and certification



As a specialist in ICT standardization, testing and certification, TTA Academy runs a range of seminars and qualification programs with the aim to disseminate and distribute of the latest ICT standard and test technologies and to foster professionals in standardization and quality.



### Major Activities



Distribute standard technologies and foster professionals in standards

Foster professionals in software test and quality

professional training programs on protection against HEMP/EMI

Run ICT qualification programs

### Major Areas of Education



#### Distribute standard technologies and foster professionals in standards

- Education and Seminars on the latest standard technologies in ICT-based technologies such as IoT, cloud computing, big data, and AI, and ICT convergence technologies such as smart farm, smart health, and smart car
- Professional education and training to foster new global specialists in ICT standardization

#### Foster professionals in software test and quality

- Software test expert training programs (foundation/advanced)
- Practical education on software test and quality, and information security
- ICT quality capacity building training for Contract-based partner companies (National human resource development consortium)
- Other company- and region-specific on-site training programs

#### Promoting protection technologies against HEMP/EMI and professional training programs

- Seminars to promote protection technologies against high power electromagnetic pulse and interference
- Professional training programs on protection technologies against high power electromagnetic pulse and interference

#### Run ICT qualification programs

- Certified Software Test Specialist (CSTS) test (foundation/advanced)
- \* Private qualification registration no. 2013-1321

#### State-funded ICT education projects

- Software Expert Training Institute (SWETI) by the Ministry of Science and ICT
- Consortium for HRD Ability Magnified Program by the Ministry of Employment and Labor
- Vocational Education and Training Institute by the Ministry of Employment and Labor
- Lifelong Learning Facilities for the Development of Knowledge-Based Human Resources by the Ministry of Education

