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**SESEC III**  
**China IT/ICT Standardization**  
**Newsletter**  
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**CENELEC**



## **Introduction of SESEC Project**

The Seconded European Standardization Expert in China (SESEC) is a visibility project co-financed by the European Commission (EC), the European Free Trade Association (EFTA) secretariat and the three European Standardization Organizations (CEN, CENELEC and ETSI).



Since 2006, there has been three SESEC projects in China, SESEC I (2006-2009), SESEC II (2009-2012), and SESEC III (2014-2017). In April 2018, SESEC IV was officially launched in Beijing, China. Dr. Betty XU was nominated as the SESEC expert and will spend the next 36 months on promoting EU-China standardization information exchange and EU-China standardization cooperation.

The SESEC project supports the strategic objectives of the European Union, EFTA and the European Standardization Organizations (ESOs). The purpose of SESEC project is to

- Promote European and international standards in China;
- Improve contacts with different levels of the Chinese administration, industry and standardization bodies;
- Improve the visibility and understanding of the European Standardization System (ESS) in China;
- Gather regulatory and standardization intelligence.

The following areas have been identified as sectoral project priorities by the SESEC project partners: Internet of Things (IoT) & Machine-to-Machine (M2M) communication, communication networks & services, cybersecurity & digital identity, Smart Cities (including transport, power grids & metering), electrical & electronic products, general product safety, medical devices, cosmetics, energy management & environmental protection (including eco-design & labelling, as well as environmental performance of buildings).

## **SESEC IV China IT/ICT Standardization Newsletter**

SESEC IV China IT/ICT Standardization Newsletter is the gathering of China regulatory and standardization intelligence in IT/ICT areas. Most information of the Newsletter were summarized from China news media or websites. Some of them were the first-hand information from TC meetings, forums/workshops, or meetings/dialogues with China government authorities.

## **In this Newsletter**

In this Newsletter, some news articles were abstracted from Chinese government organizations. Some detailed translations can be downloaded from SESEC website.

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## ***Abbreviations***

AQSIQ	General Administration of quality supervision, inspection and quarantine of
CAC	Cyberspace Administration of China
CAS	China Association of Standardization
CCC	China Compulsory Certification
CCSA	China Communication Standardization Association
CEC	China Electricity Council
CEEIA	China Electrical Equipment Industrial Association
CELC	China Energy Labelling Centre
CESI	China Electronic Standardization Institute
CFDA	China Food and Drug Administration
CMDSA	Centre for Medical Device Standardization Administration
CNCA	Certification and Accreditation Administration of China
CNIS	China National Institute of Standardization
CNREC	China National Renewable Energy Centre
EPPEI	Electric Power Planning and Engineering Institute
GACC	General Administration of Customs of China
IEC	International Electrotechnical Commission
ITEI	Instrumentation Technology and Economy Institute
MIIT	Ministry of Industry and Information Technology of People’s Republic of
MCC	Ministry of Commerce of China
MFA	Ministry of Foreign Affairs
MoH	Ministry of Health
MPS	Ministry of Public Security
MoHURD	Ministry of Housing and Urban-Rural Development
MOR	Ministry of Railway
MOT	Ministry of Transport
MoST	Ministry of Science and Technology
MEP	Ministry of Environmental Protection
NDRC	National development and reform commission People’s Republic of China
NHFPC	National Health and Family Planning Committee
NIFDC	National Institute of Food and Drug Control
NEA	National Energy Administration
SAC	Standardization Administration of China
SCLAO	State Council Legislative Affairs Office
SGCC	State Grid Corporation of China
SIPO	State Intellectual Property Office
TC	Technical Committee for Standard Development
OSCCA	Office of State Commercial Cryptography Administration

## ***Contents:***

### ***Horizontal***

#### **1. China restructured the State Council**

On 17 March, the National People's Congress approved the Plan for the Institutional Re-structuring of the State Council. The plan will cut down the number of the State Council's departments from 42 to 26 to improve government's administrative efficiency. A new agency, State Administration for Market Regulation (SAMR), will be established to take over the responsibility of former AQSIQ, CFDA, and State Administration for Industry and Commerce. The former national standardisation competent authority, SAC, and the former national certification competent authority, CNCA, will be merged into the newly established SAMR and continue their functions in standardisation and certification areas under the new organisational architecture.

#### **2. MIIT issued the Standardisation Work Focuses of Informatisation and Software Service Industry (2018)**

According to this document, MIIT will establish the National Technical Committee of Informatisation and Industrialisation Integration Management, and the National Technical Committee of Block-chain and Distributed Ledger in 2018.

In the aspect of the development of standard systems, MIIT will publish the Informatisation and Industrialisation Convergence Standard System, and the Software and Information Service Standard System, join hand with SAC to develop the *Construction Guidelines for the Industrial Information Security Standard System*, and improve ITSS system.

MIIT will also facilitate standard development on Informatisation and Industrialisation Convergence, security of industrial control system, software industry, big data, information technical service, cloud computing.

In addition, MIIT will strengthen the adoption of international standards, carry out standardisation demonstration and application, foster association standards, and improve informatisation and software service standardisation platforms.

#### **3. SAC release the Main Points of National Standardisation in 2018**

The document was released on 23 February. It included 86 specific standardisation requirements in the aspects of standard system construction, expansion of standardisation coverage, standardisation reform, standard internationalisation, and standardisation management capability. Should you need the translation of the document, please contact SESEC.

#### **4. CCSA convened TC Joint Meeting to review the first bath of standard projects in 2018**

On 23 January, CCSA convened its 2018 1st TC joint meeting in Beijing. Totally 287 standard and research project proposals were reviewed, including 28 national standard proposals, 205 communication sectoral standard proposals, 9 association standard proposals, and 45 research project proposals. These proposals covered mobile communication, internet, network and service capability, NFV, cloud computing, big data, AI, IoT, IoV, mobile internet application and intelligent terminals, transmission network, access network, communication power supply and room environment, network and information security, network management and operation support, EMC and safety protection, energy saving and comprehensive utilization, quantum communication, industrial internet, navigation and position service, communication service, etc.

#### **5. MIIT called for comments on Technical Requirements for Short Distance Micro-Power Radio Transmitting Equipment (Draft for Comments)**

According to the newly revised Radio Management Regulation, licenses for frequency use, radio station deployment and device type approval are not necessary for the short distance micro-power radio devices defined in the regulation, but these devices cannot interfere with other legal radio businesses and cannot raise a claim for protection from harmful interference of other radio businesses.

To strengthen management on short distance micro-power radio transmitting devices, MIIT revised the *technical requirements for short distance micro-power radio transmitting equipment*, and has finished comments collection on it.

## ***Communication and Information Technology***

### **6. MIIT released the Main Points of the Standardisation for Industries and Communication Technology**

MIIT released the document on 16 March. Its requirements included: to develop/revise 1800-odd standards to meet the needs of constructing the “powerful country in service, manufacturing, and network”, to promote the “application and demonstration project of 100 association standards” in 10-odd key areas, to raise the adoption rate of international standards by 5%, to ensure an international standards conversion rate of more than 90% in key areas by 2020, and to encourage Chinese enterprises and institutes to develop 100-odd international standards.

To help implement these objectives, the policy document assigned 5 tasks for all MIIT standardization-related units:

- Improve the technical standard system, including not only to continue improving the current technical standard system, but also to facilitate the construction of standard system in key and emerging areas, such as intelligent manufacturing and green manufacturing, artificial intelligence, industrial internet, connected car, big data, cloud computing, information technology services, etc.;
- Strengthen the implementation of national and sectoral standard projects, including the development of mandatory standards, the development of standards in key areas, such as industrial base standards, intelligent manufacturing standards and green manufacturing standards. Furthermore, the document also emphasized the publicity and implementation of crucial standards;
- Foster advanced association standards, containing the promotion of the “Association Standards Application Pilot Projects” and the exploration of the admissibility mechanism for association standards.
- Facilitate the Chinese standards to “go global”. The specific contents include carrying out comparison and analyses between Chinese standards and international standards; enhancing Chinese standards’ consistency with international standards; participating in the development of international standards in key areas; strengthening cooperation with international standardization organizations; raising the level of internationalization of Chinese standards.
- Strengthen the construction of the standardization system and organization. The following regulations will be developed or revised: *administrative measures for the management of MIIT TCs, Interim administrative measures for the development of MIIT sectoral standards, Procedure and requirements for the development of mandatory national standards in industry and communication technology, Administrative measures for application pilot projects of association standards in industry and communication technology.*

### **7. MIIT approved 5 communication sectoral standards**

- *YD/T 3312-2018 Assessment requirements for ICT enterprise ’ s supporting capability in innovation and business startups*
- *YD/T 3313-2018 Implementation guide on brand cultivation and management system – communication industry*
- *YD/T 2093-2018 Test requirements for the security of online selling areas*

- *YD/T 3314-2018 Test requirements for the security of online trading systems*
- *YD/T 3315-2018 Implementation requirements for the security service of telecom network and internet.*

#### **8. CCSA published 7 association standards**

- *YDB 195-2018 Technical requirements and test methods for quick charging of mobile communication terminals*
- *YDB 196-2018 Technical requirements and test methods for wireless power supply device – part 1 – general requirements*
- *YDB 197-2018 Technical requirements and test methods for wireless power supply device – part 2 – magnetic induction coupled mode*
- *YDB 198-2018 Technical requirements and test methods for wireless power supply device – part 3 – magnetic resonance mode*
- *YDB 199-2018 Mobile internet + smart home system – general requirements*
- *YDB 200-2018 Technical requirements and test methods for wearable wireless communication device – wrist wear device*
- *YDB 201-2018 Technical requirements for security capability of smart home terminal device*

#### **9. CCSA/TC11 (Mobile Internet Application and Terminal) reviewed an accessible sectoral standard**

CCSA/TC11/WG3 (Terminal) held a meeting recently to review a sectoral standard: *accessible technical requirements for mobile communication terminals (draft for approval)*.

The standard defined the technical requirements for the accessible mobile terminals developed for special crowd, such as the disabled and the aged. It presented the requirements on basic design, system settings and recovery, text editing, text resizing, interoperation, graphical widget, column frame component, form menu, phone, SMS, and contacts functions, interface, voice processing, etc.

#### **10. MIIT released its sectoral standard development plan (1st batch in 2018)**

There are 273 standard development projects (268 product standards and 3 engineering construction standards), and 10 foreign language standards (7 translations and 3 new drafts) approved in the plan, among which 100 communication sectoral standard projects will be launched for various communication technical areas, such as cloud computing, IoT, mobile internet, network management, intelligent terminal, interconnection, information security, access network, IoV, AI, frequency, etc. All these standard projects are managed by CCSA and their drafts will be finished within 2 years.

#### **11. CCSA launched standard projects on the intelligent operation/maintenance of communication network and the user experience management of mobile internet**

On 9 January, CCSA/TC7 (Network Management and Operation Support) convened its 27 plenary session in Beijing.

CCSA/TC7/WG1 (Wireless Communication Management) discussed 3 sectoral standard drafts (for comments), including *information model of VoLTE core network management interface*, *technical requirements for the network section management in mobile communication network*, and *network function virtualization (NFV)*. The WG also agreed a research project proposal: *NFV containerized network elements orchestration management*.

CCSA/TC7/WG2 (Transmission, Access and Bearer Network Management) discussed and passed 2 sectoral standard proposals: *OTN network management technical requirements – part 1 – general principles*, and *OTN network management technical requirements – part 2 – NMS system function*.

CCSA/TC7/WG3 (ICT Service Management and Operation) passed sectoral standard drafts (for reviewing): *Big data management technical requirements – part1 – management framework*, and other 6 sectoral standard proposals on communication network intelligent operation management, telecom data management, and mobile internet user experience management, separately.

#### **12. CCSA/TC11 (Mobile Internet Application and Terminal) reviewed 2 mobile communication terminal sectoral standards**

- *Technical requirements and test methods for the visual communication performance of IMS-based mobile communication terminal (draft for approval)*
- *General test methods for the audio of digital mobile terminal (draft for approval)*

## **5G**

#### **13. 5G technical development trial (3rd phase) specifications published**

On 16 January, IMT-2020 (5G) Promotion Group held Conference in Beijing, publishing their 5G Technical Development Trial (3rd phase) Specifications.

According to their work plan for 2018, IMT-2020 (5G) Promotion Group will launch the NSA architecture indoor and outdoor test in the first season of 2018, launch the demonstration and verification of typical applications in the second half of the year, launch the SA architecture indoor and outdoor test in the third season, and carry out the terminal and interoperation test in the fourth season.

## **IoT**

#### **14. MIIT released the Work Focuses of Intelligent Connected Vehicle (ICV) Standardisation (2018)**

The document proposed the following main points,

- Develop automatic drive standards for the grading of vehicle's automation level, test scenario and composite control evaluation, drive record and alerting signal, as well as man-machine interaction invalidation.
- Start researches on connected vehicle standards, including vehicle communication, high-precision map, road facility, methodology, communication time-delay, and the function, performance and interface of LTE-V2X-based cellular communication, etc.
- Speed up the development of ADAS standards and information security standards.
- Strengthen the ICV standard system's coordination and compatibility with other systems.

#### **15. SAC approved 3 smart home national standards**

The following 3 standards were approved by SAC recently:

- *GB/T 35143-2017 Smart home for internet of things—Unicode of data and device,*
- *GB/T 35134-2017 Smart home for internet of things—Device description method,*
- *GB/T 35136-2017 General technical requirement for control equipment of smart home.*

These standards defined the graphic symbol, data and device coding, device description, user interface, and design content for smart home system.

#### **16. National IoT Fundamental Standard WG held the 2018 1<sup>st</sup> plenary session**

The WG held the session on 18 January 2018 in Beijing, summarizing its the IoT standardisation achievements made in 2017:



- 3 published national standards on standardisation guideline, terminology, and system interface,
- 7 national standard proposals, such as general requirements for smart meter application-oriented IoT system, etc.
- 5 approved national standard projects, including perception controller access, etc.
- 4 national standard drafts (for approval) on assessment index system.

#### **17. The National Technical Committee for Auto Standardisation (SAC/TC114) established the Intelligent Connected Vehicle (ICV) Sub Committee**

The Inaugural Meeting of the Intelligent Connected Vehicle Sub Committee was held on 3 April in Beijing. The secretariat of the Sub Committee made a report on the development of “Construction Guidelines for National Connected Car Standard System (Intelligent Connected Car Part)”, reviewed and passed the bylaw of the Sub Committee as well as the working instructions of the secretariat.

### ***Big data***

#### **18. The 2018 National Big Data Standardisation Working Meeting held in Beijing**

On 29 March, SAC/TC28 (Information Technology Standardisation) organized the 2018 National Big Data Standardization Working Meeting in Beijing. The Big Data Standardisation Whitepaper (2018) was published in the meeting, and the nationwide promotion of *GB/T 36073 -2018 Data management capability maturity assessment model* was launched. SAC/TC28/Big Data WG held their 5<sup>th</sup> plenary session as well at the same time, summarizing their work outcomes in 2017 and setting their objectives for 2018

### ***Cybersecurity***

#### **19. MIIT released the Action Plan for Information Security of Industrial Control System (2018-2020)**

The Action Plan aimed to improve the standard system for the information security of industrial control system. Its main contents included

- Develop standards for security grading, security requirements, security implementation, and security assessment;
- Speed up the assessments for the security protection capability of industrial control systems
- Accelerate the development and application of the key standards for industrial internet platform security, and of the key standards for device and product security of industrial control system;
- Encourage enterprises, R&D institutes, and industrial organizations to take part in international standardisation works.

#### **20. SAC/TC260 called for comments on 13 cybersecurity standards**

On 19 January, the National Information Security Standardisation Technical Committee (TC260) issued a public consultation on 13 information security draft standards as bellows,

- *Information Security Technology Identity-Based Cryptographic Algorithms SM9 — Part 1: General Requirements*
- *Information Security Technology Identity-Based Cryptographic Algorithms SM9 — Part 2: Algorithms*
- *Information Security Technology-CTLS Protocol*

- *Information Security Technology-Secure Electronic Seal Cryptography Technical Specification*
- *Information Security Technology-One Time Password Application of Cryptography Algorithm*
- *Information Security Technology-Sign and Verify Server Technical Specification*
- *Information Security Technology-Guidelines for Grading of Classified Cybersecurity Protection*
- *Information Security Technology-Guideline of Password Protection for Intelligent Connected Device*
- *Information Security Technology-Type and Code of Cybersecurity Special Products (to replace the existing standard GB/T 25066-2010 Information Security Technology-Type and Code of Information Security Products)*
- *Information Technology - Security Techniques - Sector-Specific Application of GB/T 22080-2016 - Requirements*
- *Information Technology-Security-Techniques-Selection, Deployment and Operation of Intrusion Detection and Prevention Systems (IDPS)*
- *Information Technology-Security-Techniques-Requirements for Bodies Providing Audit and Certification of Information Security Management Systems*
- *Information Security Technology-Risk Assessment Specification for Information Security*

## ***Cloud computing***

N/A

## ***Other IT/ICT Standards Update***

### **21. CCSA/Network Function Virtualisation(NFV) Special WG discussed NFV standards**

CCSA/NFV WG held meeting recently to review its NFV serial standards, and the following standards were discussed

- *Technical requirements for NFV orchestration (NFVO) – interface between NFVO and virtualized infrastructure management (VIM) system (sectoral standard draft for comments)*
- *Technical requirements for NFV orchestration (NFVO) – interface between NFVO and operation support system (OSS) (sectoral standard draft for comments)*
- *Technical requirements for NFV orchestration (NFVO) – service template (sectoral standard draft)*
- *Research project: technical requirements for NFV orchestration (NFVO) – NFV strategic management*

### **22. Mobile Device Biometric Identification Standard WG held plenary session**

The session summarized the work outcomes of the WG since its establishment in 2016.

- *National standard draft (for approval): Information technology - Biometrics used with mobile devices -Part1: General requirements*
- *3 National standard proposals: Information technology - Biometrics used with mobile devices - Part 2: Fingerprint, Information technology - Biometrics used with mobile devices -Part 3: Face, and Information technology - Biometrics used with mobile devices -Part 4: Iris*