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SESEC III
China IT/ICT Standardization
Newsletter
For
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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 two SESEC projects in China, SESEC I (2006-2009) and SESEC II (2009-2012). In Dec 2014, SESEC III 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 III China IT/ICT Standardization Newsletter

SESEC III China IT/ICT Standardization Newsletter is the gathering of China regulatory and standardization intelligence in IT/ICT areas. Most information of the Newsletter is 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.

Content List

Horizontal

1. *Administrative measures for the licensing of use of radio frequency comes into force*
2. *MIIT released the Guide on construction of mobile internet comprehensive standard system*
3. **SESEC held an EU-China RoHS Conformity Assessment Workshop**
4. **ETSI and CEN-CENELEC attend the Standards Essential Patent (SEP) International Symposium in Beijing**
5. **China canceled commercial encryption administrative approvals**
6. **CCSA establishes the Quantum Communication and Information Technology Special Task Team**
7. **The CCSA/TC4 30th Plenary Session reviews its sectoral standard drafts**
8. **CCSA 2017 2nd TC Joint Meeting reviews the 2nd batch of standard projects**
9. **CCSA/TC5 43th Plenary Session in Kunming**
10. **2 telecommunication equipment environment test standard drafts pass review**
11. **The 14th Cross-Strait Information Industry and Technical Standard Forum held in Jinmen**

5G

12. **MIIT promotes 5G frequency spectrum allocation**
13. **IMT-2020 Promotion Group/C-V2X Working Group publishes 2 LTE-V2X test specifications**

IoT

14. *Guide on Construction of National Standardization System for Internet of Vehicle calls for comments*
15. **CCSA/ Navigation and Positioning Service Special Team holds its 2nd meeting**
16. **CCSA/TC10 IoT Blockchain Working Group established**
17. *China innovative application blue paper for the integration of blockchain and IoT technology released*
18. *MIIT releases the notice on promoting the construction of mobile IoT (NB-IoT)*
19. **CCSA/TC9 puts forward standard proposal for NB-IoT terminal OTA test**
20. **CCSA/TC11 16th Plenary Session discussing “mobile internet + smart home”**

Cyber/Information security

21. **Chinese cybersecurity legislation system table**
22. **A cluster of supporting regulation and standards for the Cybersecurity Law call for comments**
23. **Three information security national standards are released**
24. **CJK (China-Japan-Korea) Information Security WG holds its 13th meeting**

Cloud computing

25. **China Open Source Cloud Alliance holds the 2nd Plenary Session**
26. **AQSIQ and SAC publish 9 cloud computing-based e-government public platform standards**
27. **CCSA/TC8 reviews public cloud service platform standards**

Big data

- 28. TC28/big data working group holds week conference in Huhehaote**

Others

- 29. CCSA establishes the Special Task Team of Industrial Internet**
- 30. Progress in NFV management standardization**
- 31. *General technical requirements for portable emergent communication system* calls for comments**
- 32. A service robot functional safety standard is under development**
- 33. New Smart City Standardization Conference in Shenyang**
- 34. SAC/TC28/User Interface Sub Committee held plenary session and establishes AI WG**
- 35. Network function virtualization orchestration (NFVO) standard system comes into being**
- 36. CCSA/TC3 finishes 4 reconfigurable data network research projects**
- 37. CCSA/TC9 reviews and passes 4 electromagnetic radiation protection standard drafts**
- 38. CCSA/ST8 puts forward a number of standard proposals for industrial internet**

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. Administrative measures for the licensing of use of radio frequency comes into force

The new **Radio Management regulation** released this year provides legal basis for the use of radio frequency. To help implement the regulation, MIIT developed afterwards the **administrative measures for licensing of the use of radio frequency**, stipulating in detail the ways to obtain the license, license application procedure and approval process, legal usage of radio frequency, supervision measures, as well as the liability of illegal behaviours. The measures came into force on 1 September 2017.

2. MIIT released the Guide on construction of mobile internet comprehensive standard system

The guide proposes a framework for the construction of mobile internet standard system, highlighting the standard development in 5 sub-systems: fundamental standard, mobile terminal, mobile network, mobile service and application, and mobile security.

Considering the current ongoing standard projects and released standards, the guide points out 31 development directions, to effectively address the standard deficiency problem in the fields of application and service platform, terminal unified management, service quality, personal information protection and security, and etc.

3. SESEC held an EU-China RoHS Conformity Assessment Workshop

On September 14, 2017, SESEC organized a workshop on China RoHS conformity assessment model in Beijing. China RoHS regulators, such as MIIT, CNCA, CESI, CAICT, etc. and European representatives from European and GIZ were invited to attend the workshop. The meeting introduced the current situation of China RoHS II conformity assessment model and the application of the harmonized standard EN 50581. SESEC was advised at the meeting a national standard was under development, which would possibly be referenced in regulation to guide enterprises to effectively carry out the self-evaluation and self-declaration of conformity. SESEC circulated the standard draft to stakeholders for comments. Should you need the English translation of this standard, please contact SESEC team via email.

4. ETSI and CEN-CENELEC attend the Standards Essential Patent (SEP) International Symposium in Beijing

The International Symposium on Standards Essential Patent was held in Beijing on 8 September 2017, attracting nearly 200 participants from the government, IP courts, SDOs, industry and universities. Mr. Christian Loyau, Director of the Legal Department of ETSI and Mr. Bardo Schettini Gherardini, Director of the Legal Department of CEN /CENELEC, were invited to present the position of ETSI, and CEN-CENELEC on SEP global governance respectively. They highlighted the importance of seeking a balance between patent holders and patent implementers. Mr. David Ringle from IEEE also introduced the revised IEEE intellectual property policy and its impacts on standardization. Other speakers at the symposium include representatives from NDRC, State Administration for Industry and Commerce (SAIC), National Intellectual Property Office (NIPO), Supreme Court, Beijing Intellectual Property Court, CNIS, CCSA, Qualcomm, Ericsson, Apple, Microsoft, Sony, Huawei, and ZTE etc. The speakers shared their views and different perspectives on the issues including FRAND principles, injunction relief, SEPs data analysis and FRAND royalty rate calculation among others. The presentation slides of the speakers can be found on SESEC website <http://www.sesec.eu/presentations/>

5. China canceled commercial encryption administrative approvals

On 29 September, the State Council issued its *Decision on Cancelling a Batch of Administrative Approval Items*. On 11th October, the State Encryption Management Bureau (SEMB) issued the *Notice on Ensuring Policy Cohesion upon Removal of Four Administrative Approval Items*, aiming to help implement the decision in encryption industry. According to the policy, companies are no longer required to apply for the following four approvals:

- Approval for Production of Commercial Encryption Products
- Permit for Sales of Commercial Encryption Products
- Approval for Foreign-invested Enterprises to Use Foreign Manufactured Encryption Products
- Approval for Foreign Organizations and Individuals to Use Encryption Products or Devices Containing Encryption Technology in China

In addition, the regulatory focus will be shifted from enterprises to products, and SEMB will significantly enhance in- and post-market supervision efforts, in particular by prohibiting products without approval from being sold on the market. See Annex I and Annex II for a translation of the new SEMB policy.

6. CCSA establishes the Quantum Communication and Information Technology Special Task Team

The founding conference of the Quantum Communication and Information Technology Special Team and its first meeting were held by CCSA on 14 June in Beijing. The meeting reviewed and passed 2 national standard proposals and 4 research topics.

Project Title	national standard proposal/ research topic
<i>quantum communication terminology and definition</i>	national standard proposal
<i>application scenarios and requirements of quantum secure communication</i>	national standard proposal
<i>quantum secure communication network architecture</i>	research topic
<i>security of quantum key distribution</i>	research topic
<i>test and assessment of quantum secure communication system</i>	research topic
<i>co-transmission of quantum key distribution and classical optical communication system on one fiber</i>	research topic

7. The CCSA/TC4 30th Plenary Session reviews its sectoral standard drafts

The CCSA/TC4 (Communication Power Supply and Communication Station Work Environment) 30th plenary session was held from 20 to 22 June in Beijing. The session reviewed the second batch of standard proposals of 2017, including 6 revision proposals and 2 formulation proposals:

Standard proposals	Revision/ Formulation
<i>communication inversion equipment</i>	revision
<i>technical requirements for the maintenance of communication station power supply system - part 6 – generator system</i>	revision
<i>intelligent heat exchange system for communication station</i>	revision
<i>intelligent fresh air energy saving system for communication station</i>	revision
<i>technical guide for energy saving in communication power supply and room environment – part 1 – general requirements</i>	revision
<i>technical guide for energy saving in communication power supply and room environment – part 4 – air conditioner energy efficiency grading</i>	revision
<i>technical requirements for electric energy comprehensive utilization of communication station in peak load and vale load</i>	formulation
<i>aluminum-air battery system for communication</i>	formulation

In the working group meetings held over the same period, the Communication Power Supply WG reviewed and pass the revision of *YD/T 1051-2010 general technical requirements for power supply system of communication station (draft for approval)*. The revision will help meet the new requirements arose with the innovation in communication power supply technology, such as powerpac basic, power supply mode, allocation scheme of power supply system, new equipment in power supply system, etc.

In addition, the WG meeting discussed and passed other 4 sectoral standards (draft for comments):

- *Technical requirements for the maintenance of power supply system in communication station – part 8 – power supply and environment monitoring system*
- *DC breaker for 240V/226V power supply system for communication*
- *General rules for electrostatic protection in communication station*
- *Constant temperature and humidity air conditioning system for communication machine room*

8. CCSA 2017 2nd TC Joint Meeting reviews the 2nd batch of standard projects

In the 2017 CCSA 2nd TC Joint Meeting held in Beijing on 18 July, 138 standard proposals were reviewed, including 4 national standard proposals, 80 sectoral standard proposals, 24 association standard proposals, and 30 research project proposals.

These proposals cover various areas, such as mobile communication, network and service capability, cloud computing, AI, IoT, mobile internet and intelligent terminals, access network, communication power supply and machine room environment, network and information security, network management and operation, electromagnetic environment and safety protection, emergent communication, quantum secure communication, interconnection, communication service, etc.

9. CCSA/TC5 43th Plenary Session in Kunming

On 17 August, CCSA/TC5 (Wireless Communication) held its 43th plenary session in Kunming. The meeting discussed a series of standard proposals and drafts.

In the aspect of future projects, the meeting proposed 2 national standard proposals about LTE mobile terminal supporting Beidou navigation system, 8 sectoral standard proposals in the fields of vehicle-borne communication technology, LTE-based edge computing, in-door distributed antenna, etc., and 7 research proposals in the areas of VoLTE, 5G edge computing core network, wireless IoT service mode, etc.

In the aspect of ongoing projects, the meeting reviewed a national standard draft about Radio Monitoring Transfer Protocol (RMTP), 12 sectoral standard drafts (for approval) in the areas of LTE-based IoV communication, LTE-based proximity communication security, LTE customer premise equipment, RF technology for 230MHz broadband wireless transmission, Beidou navigation terminal space radiation characteristic, etc., 1 association standard draft (for approval) of controller for public WLAN access, 4 research projects in the areas of mobile packet network architecture design, wireless power frequency, 5GHz broadband wireless access system Listen Before Talk (LBT) technology, etc.

In addition, a sectoral standard proposal: *technical requirements for 5G security* was reviewed and put forward by the earlier CCSA/TC5/WG5 (Wireless Communication Security and Encryption) meeting.

10. 2 telecommunication equipment environment test standard drafts pass review

CCSA/TC9 (Electromagnetic Environment and Safety Protection)/WG2 (Telecommunication System Lightning Protection and Environmental Adaptability) recently reviewed and passed two sectoral standard drafts (for approval): *requirements and methods for telecommunication equipment environment test – part 9 – ship-borne equipment*, and *requirements and methods for telecommunication equipment environment test – part 10 – civil air-borne equipment*. Combined with other 8 parts, these environment test standards will help shape the design and production of relevant telecommunication products.

11. The 14th Cross-Strait Information Industry and Technical Standard Forum held in Jinmen

The forum released 4 standards applicable for both mainland China and Taiwan concerning tracking label for silicon slice of PV cell, cabinet server system, and M2M technical requirements. In addition, the forum released the *compilation of application cases of cross-strait cloud computing industry V3.0* and signed a *MoU of promoting cross-strait cooperation in IoV (internet of Vehicle) standard and industry*.

The forum has been held 14 times since 2005, released 49 common-use standards, and achieved 388 industrial agreements.

5G

12. MIIT promotes 5G frequency spectrum allocation

On 10 July, MIIT hosted a meeting for 5G frequency planning, requiring to

- Speed up the planning for frequency bands under 6GHz and release it as soon as possible;
- Exploit new frequency resources for 5G system,
- Strengthen frequency delicacy management and realize frequency sharing between 5G and other current systems,
- Accelerate the planning for MMW frequency.

On 15 August, MIIT convened another experts-consulting conference, calling for comments on the *regulation for radio frequency spectrum allocation (revised)* and the frequency spectrum allocations solution for 5G systems under 6GHz.

13. IMT-2020 Promotion Group/C-V2X Working Group publishes 2 LTE-V2X test specifications

In the 5G Innovative Development Summit held on 28 September in Beijing, the IMT-2020 Promotion Group/C-V2X Working Group issued 2 LTE-V2X test specifications: *LTE-V2X terminal function test specification (Lab)* and *LTE-V2X performance test specification (Lab)*. The two specifications defined methods and process for LTE-V2X terminal device's function and performance test. Furthermore, C-V2X Working Group put forward in the meeting its LTE-V2X test plan focusing on communication performance, interoperability and end-to-end application tests.

IoT

14. Guide on Construction of National Standardization System for Internet of Vehicle calls for comments

The *Guide on Construction of National Standardization System for Internet of Vehicle* comprises of 6 parts: general requirements, intelligent connected vehicle, intelligent transportation, information communication, vehicle intelligent management, and electronic products and service. On 13 June, the draft of the intelligent connected vehicle part was released for public comments. On 25 September, SAC and MIIT issued notice again to call for comments on another three parts: the general requirements, information communication, as well as the electronic products and service. The comments collection will be closed on 24 October. Should you need the English translation of the draft, please contact SESEC team via email.

15. CCSA/ Navigation and Positioning Service Special Team holds its 2nd meeting

In the CCSA/ST9 (Navigation and Positioning Service Special Task Team) 2nd meeting held in Beijing, 5 research proposals were discussed and passed:

- *Technical requirements for IoT-oriented user-based A-GNSS positioning service*
- *High precision time synchronization technology for indoor positioning*
- *High precision satellite navigation information broadcasting system in mobile communication network*
- *Mobile communication network-based high precision positioning technology (phase I)*
- *Navigation and positioning service standard system*

CCSA has launched standard projects in the field of A-GNSS information broadcasting system for mobile communication network since 2015. Most of the standards have entered the approval phase by now. In view of similar standard projects could be put forward from the angle of satellite navigation by other SDOs, the meeting proposed to strengthen coordination with them to ensure the harmonious development of the navigation and mobile communication industries.

16. CCSA/TC10 IoT Blockchain Working Group established

From 8 to 10 August, CCSA/TC10 (IoT) convened its 17th Plenary Session in Yinchuan, and an IoT blockchain working group was established in the meeting. The WG will be responsible for the application and standardization of blockchain technology in the fields of IoT, IoT-covered smart city, IoV, edge computing, big data, logistics, and smart manufacturing industries.

In addition, the meeting reviewed and passed 2 sectoral standard proposals: *blockchain-based decentralized IoT service reference frame* and *technical requirements and test method for IoT terminal-oriented primary cell*, as well as 2 research project proposals about blockchain-based IoT data exchange and sharing, and use case analysis of blockchain-based IoT application.

17. China innovative application blue paper for the integration of blockchain and IoT technology released

Based on national standard *GB/T 33474-2016 Internet of things—Reference architecture* as well as the association standard: *blockchain – reference architecture*, the blue paper integrates the blockchain function architecture and IoT six-domain model, and build up an integration framework of blockchain and IoT. The integration framework will facilitate the use of block-chain technology in IoT industry, as well as will help establish data channels for horizontal IoT industrial chain and vertical IoT devices.

18. MIIT releases the notice on promoting the construction of mobile IoT (NB-IoT)

On 6 June, MIIT released the *notice on promoting the construction of mobile IoT (NB-IoT)*, in which NB-IoT standardization are highlighted. The notice requires, on basis of NB-IoT 3GPP international standards, to speed up the development of technical and test standards for NB-IoT devices and modules, and to reinforce the development of NB-IoT enhancement and evolution technologies.

19. CCSA/TC9 puts forward standard proposal for NB-IoT terminal OTA test

CCSA/TC9 (EMC and safety protection) put forward in its working group meeting a sectoral standard proposal: *methods and index requirements for NB-IoT terminal OTA test*, which is the first NB-IoT terminal OTA test standard and will help guarantee the network access quality. The meeting also discussed another OTA test sectoral standard proposals: *methods and index requirements for eMTC terminal OTA test*. A numbers of research project proposals in the areas of vehicle-borne MMW radar lab test and MIMO OTA test were discussed as well in the meeting.

20. CCSA/TC11 16th Plenary Session discussing “mobile internet + smart home”

CCSA/TC11 (Mobile Internet Application and Terminal) held its 16th Plenary Session in Beijing on 20 June. The meeting discussed and passed 8 sectoral standard proposals including *general technical requirements for mobile internet illegal information control platform*, 3 association standard proposals including *technical requirements for bluetooth-based Wi-Fi terminal distribution network*, and 4 research project proposals including *sharing platform of SIM card unified certificate-based personal data*.

In the aspect of ongoing standard projects, members reviewed and passed 4 mobile payment sectoral standard drafts (for approval), 4 “mobile internet + smart home” system association standard drafts (for approval), and 2 final research reports in the field of data sharing for mobile internet autos.

Cyber/Information security

21. Chinese cybersecurity legislation system table

Since the National People’s congress passed the Cybersecurity Law last November, a series of regulations and standards were successively developed to support its implementation, and a complete legislation system has gradually come into being. To help have a better understanding of the whole system, please find in Annex III a table of relevant regulations and standards used to support the corresponding articles in the Cybersecurity Law.

22. A cluster of supporting regulation and standards for the Cybersecurity Law call for comments

On 11 July, CAC released the Regulations on Critical Information Infrastructure Protection (draft for comments). On 30 August, TC260 issued a public consultation on 6 information security technology standards as followed.

- *Information security technology – Guide to Security Inspection and Evaluation of Critical Information Infrastructure*
- *Information Security Technology-Indicator System of Critical Information Infrastructure Security Assurance*
- *Information Security Technology--Guidelines for Data Cross-Border Transfer Security Assessment*
- *Information Security Technology-General Security Requirements of Network Products and Services*
- *Information Security Technology-Evaluation Criteria for ICS products security*
- *Information Technology-Security Techniques-Anonymous Entity Authentication - Part4 - Mechanisms Based on Weak Secrets*

23. Three information security national standards are released

- *Technical specification of NFC security—Part 1: NFCIP-1 security services and protocol*
- *Technical specification of NFC security—Part 2: Security mechanism requirements*
- *Information security technology—Technology requirements for electronic payment of mobile terminal security based on short-range radio communication technology*

24. CJK (China-Japan-Korea) Information Security WG holds its 13th meeting

CCSA organized the meeting from 12 to 13 July in Guangzhou. Representatives from CCSA, TTC (Japan) and TTA (Korea) introduced their work focuses respectively, e.g. TTC on block-chain, bank fraud, unsolicited connection security test, and mobile security; TTA on block-chain, UAV security and ITS security; CCSA on SDN security, security practitioner qualification, etc.

Participants discussed the application scope and maturity of unidirectional security gateway system, and agreed that it should be considered together with the standardization requirements of industrial products within the scope of IoT security.

The meeting also discussed two proposals in distributed ledger technology (DLT) digital finance service and DLT security, which will be submitted to ITU-T SG17 in its next meeting. Members agreed that special threats in DLT-based digital financial service should be considered in the texts, and cooperation with other SDOs in aspect of user cases should be strengthened.

Cloud computing

25. China Open Source Cloud Alliance holds the 2nd Plenary Session

On 26 July, the China Open Source Cloud Alliance organized its 2nd Plenary Session in Beijing. The session reviewed and passed its bylaw, as well as selected its president and team leaders.

The alliance developed an association standard: *guide for the implementation of open source-based cloud computing system*, as well as drafted 2 technical white papers: *LXC and its application white paper V1.0*, and *China desktop cloud standardization white paper (2016)*. In the future, the alliance will carry out a series of open source technical architect trainings, to promote the cloudization and standardization of IT technical solutions, as well as to improve cloud computing practitioners' capability.

26. AQSIQ and SAC publish 9 cloud computing-based e-government public platform standards

In order to implement the “National 12th Five-Year Plan for E-Government”, a cloud computing e-government standard working group was established in SAC/TC485 (national communication standardization technical committee), and undertook 24 e-government national standard projects to build up a service-oriented e-government cloud platform standard system.

These standards include the overall architecture, security system, information security safeguard mechanism, information resource protection methods, service quality evaluation mechanism and valuation methods, etc., of e-government platform. Apart from the published 9 national standards, the remaining 15 standards (drafts for approval) are expected to be finished this year.

27. CCSA/TC8 reviews public cloud service platform standards

In the CCSA/TC8 (Network and Information Security) meeting held recently in Beijing, members reviewed 2 sectoral standard drafts (for approval) and agreed to submit the standard draft: *management requirements for safe operation and maintenance of public cloud service platform* to competent authority for approval. The meeting also discussed a sectoral standard draft (for comments): *security supervision system framework of public cloud service platform*, and an association standard draft (for comments): *privacy protection measures for public cloud service*.

Big data

28. TC28/big data working group holds week conference in Huhehaote

TC28 (National Information Technology Standardization Committee)/Big Data Working Group held week conference from 20 September, reviewing 9 big data standard proposals, such as

- *Information technology – big data - interface framework in reference architecture*
- *Information technology – big data – function test requirements for storage and processing system*

- *Information technology – big data – system general requirements*
- *Information technology – big data – guide on classification*
- *Information technology – big data – function test requirements for analyzing system*

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The meeting also discussed the revision of the *big data standard white paper*, the standard draft of *information technology - big data- operation and maintenance data definition*, as well as the serial standards about big data opening and sharing.

Others

29. CCSA establishes the Special Task Team of Industrial Internet

On 21 July, CCSA held the founding conference of CCSA/ST8 (Industrial Internet Special Task Team) and its first meeting in Beijing. The Special Team composes of 5 working groups, i.e. General and Application WG, Network WG, Identity Resolution WG, Data and Platform WG, as well as Security WG. In the ST's first meeting, members put forward 13 standard projects, such as

- *Industrial internet - standard system framework, industrial internet – application scenarios and business requirements;*
- *Industrial internet – identity resolution system architecture;*
- *Industrial internet – requirements for security and protection;*

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30. Progress in NFV management standardization

Working groups of CCSA/TC7 (Network Management and Operation-Supporting Technology) held meetings recently.

WG1 (Wireless Communication Management) meeting discussed the NFV management standard framework, as well as the technical requirements for performance, malfunction, configuration, and life cycle management. Moreover, the meeting discussed the sectoral standard of VoLTE core network interface information model (draft for comments), which provide data management for the stable operation of VoLTE service, 3 research topics in NB-IoT management, EMS and its interface in NFV transitional solution, and heterogeneous network management, as well as a sectoral standard proposal about untrusted WLAN access mobile core network management.

WG2 (Transmission, Access and Carrier Network Management) meeting reviewed and passed the *technical requirements for IP/MPLS network carrying multi-services – part 7 – EMS system function (sectoral standard draft for approval)*, as well as the part 6 and part 7 of the *technical requirements for group clients access- oriented PTN network (sectoral standard drafts for comments)*.

WG3 (ICT Service Management and Operation) meeting discussed 2 research topics: *operation and maintenance management-oriented communication network simulation technology, general technology for industrial internet management*, as well as a sectoral standard: *technical requirements for big data management – part 1 – management framework (draft for comments)*.

31. General technical requirements for portable emergent communication system calls for comments

CCSA/ST3 (Emergent Communication Special Task Team) held meeting recently to review the *technical requirements for public telecommunication network preference call – part 3 – LTE network (sectoral standard draft for approval)*, and the *general technical requirements for portable emergent communication system (national standard draft)*.

Furthermore, the meeting discussed the *test methods for the positioning information transmission of mobile terminal in emergency (sectoral standard draft)*, which was the supporting standard for

the *technical requirements for the positioning information transmission of mobile terminal in emergency*.

32. A service robot functional safety standard is under development

On 18 August, the first drafting group meeting for the standard of *evaluation methods for service robot functional safety* was held in Shanghai. The meeting discussed the standard's application scope, reference, terminology and definition, as well as the technical requirements such as battery energy risks identification and analysis, etc. By reference to IEC 61508, GB 28526, and other relevant national standards, the draft puts forward a series of requirements for the safety-related control system (SRCS), to ensure the function safety of whole service robot.

33. New Smart City Standardization Conference in Shenyang

On 23 September, CESI and National Smart City Standardization General Working Group co-organized the conference, and issued the *implementation report for the application of new smart city evaluation index*, which is a summary and analysis for the implementation of *GB/T 33356-2016 New Smart City Evaluation Index*. The conference also discussed the key standards of new smart city, the application of the evaluation index, and the good practices in cities.

34. SAC/TC28/User Interface Sub Committee held plenary session and establishes AI WG

On 30 June, SAC/TC28 (National Information Technology Standardization Technical Committee)/User Interface Sub Committee held plenary session in Beijing to summarize its achievements in the past year: finished 7 national standard drafts (for approval) in intelligent voice and information accessibility areas. An artificial intelligence working group was established in the session, and will begin to draft the *artificial intelligence standardization whiter paper*.

35. Network function virtualization orchestration (NFVO) standard system comes into being

CCSA/NFVO Special Standard Group organized its 2nd meeting to discuss the revision of the sectoral standard: *technical requirements for network function virtualization orchestration (draft for comments)*. The meeting decided to split the project into 6 sectoral standard projects, i.e. general requirements, business process, interface between NFVO and OSS, interface between NFVO and VNFM, interface between NFVO and VIM, business model, as well as the strategy management. The 6 parts will form the NFVO standard system. Furthermore, the *technical requirements for network function virtualization orchestration – general requirements (draft for comments)* has been completed by now.

36. CCSA/TC3 finishes 4 reconfigurable data network research projects

In the CCSA/TC3 (Network and Service Capability)/WG3 (New Network) meeting, members reviewed standard projects in reconfigurable data network, Delay Tolerant Network, core network virtualization, and FDN. Moreover, the WG announced the completion of 4 reconfigurable data network research projects: controller interconnection, addressing and routing, macro-circuit, and security system.

The meeting also put forwards 2 sectoral standard proposals in virtual broadband access remote server and MAN edge data center distribution technology, respectively.

37. CCSA/TC9 reviews and passes 4 electromagnetic radiation protection standard drafts

- *Technical requirements for operation and maintenance staff protection of communication facility in DC and power frequency electromagnetic field (draft for comments)*
- *Measuring and human exposure limit conformity determination for the RF electromagnetic field of operational base station (draft for approval)*

- *Protection against electromagnetic environment in telecommunications station - part1 - classification for electromagnetic environment (draft for comments)*
- *Protection against electromagnetic environment in telecommunications station - part2 - protection methods (draft for comments)*
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38. CCSA/ST8 puts forward a number of standard proposals for industrial internet

In the CCSA/ST8 (Industrial Internet Special Task Team) meeting on 30 August, 1 national standard proposals and 13 industrial internet sectoral standard projects were put forward, involving different technologies such as IPv6 address management, industrial internet architecture, industrial internet application scenarios and business requirements, time-sensitive network (TSN), identity resolution, interoperation between handle-based heterogeneous identity resolution systems, industrial internet platform general requirements, application management interface for industrial internet platform, industrial internet security capability maturity evaluation, platform security protection, data security, etc.