

# Quarterly Report No.

## Standards, Policy and Regulation (‘October – December’ 2021)

January 2022

SESEI IV– Dinesh Chand Sharma

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### 1. Executive Summary

I would like to begin by wishing you all an incredibly Happy and safe 2022. I welcome you all to the tenth Quarterly report of the Project SESEI IV. Quarterly reports provide detailed record of the various activities undertaken by the SESEI expert to achieve the desired outcome as envisaged by the Project Partners. This report also helps in asserting the actions required by the Project partners and the SESEI expert towards embarking on a roadmap created for the desired outcomes through this project.

With major missions of Project SESEI to enhance the visibility of European standardization activities, share best practices, assist adoption and harmonization, and increase the cooperation between Indian & European standardization bodies, pleased to inform you that Bureau of Indian Standards (BIS), national standard development body of India, has published [Indian Standard IS 17802-"Accessibility for ICT Products and Services, Part 1: Requirements"](#) which is a technical adoption of European Standard EN 301 549 v3.2.1 as developed by CEN, CENELEC and ETSI. SESEI expert has been working for last few years on the adoption of EN 301549 as national standards for India for "Accessibility for ICT Products and Services for (PwDs). SESEI ensured during the process of adoption that he participates in all possible forums to promote this EN, create awareness on the need for its adoption and ensure synergies between all stakeholders in India. Consistent advocacy through regular participation in Electronics & IT Department (LITD) section Committee 35 of BIS, various meetings at Ministry of Electronics & IT (Meity), Telecom Committee of Broadband India Forum (BIF), Centre for Development of Advance Telematics (CDAC) has resulted in achieving this feat.

As we all are aware that [oneM2M specifications release 2](#) have already been adopted by India as the National Standards and became a part of BIS Indian Standards for IoT Reference Architecture for Smart Cities, SESEI continued working during this quarter in tandem with the Telecom Engineering Centre (TEC) for the adoption of oneM2M Release 3 specifications.

The other topics, where SESEI is promoting international /EN standards are around Digital signatures, Security, and code of practice for the Consumer IoT devices. SESEI has provided inputs to TEC Technical Report on "Security by design Principles in M2M device" incorporating work done by European Union, as well a section on the security related work carried out by ETSI & CEN-CENELEC. The [Code of Practice for securing Consumer IoT](#), report was released by TEC, and It may be noted that SESEI has been working closely with TEC for adoption and implementation guidelines for Code of Practice based on EN 303 645, and its deployment in line with ETSI TS 103 701 and pleased to share that the TEC Code of Practice is entirely based on EN 303 645. Also, on this, SESEI expert was approached by Department for Digital, Culture, Media, and Sport of UK, and on their request SESEI expert organized a meeting with TEC Officials for understanding and sharing of UK experience on converting the EN 303 645 into legislation and further discussions are ongoing for holding a joint webinar.

Trade and Industry Associations hold equal importance in the standards development process and SESEI ensures excellent working relationship with most of the industry bodies concerning priority sectors. As you are aware, SESEI is the Chairman of the "Standards, Legal & Regulatory Working Group of IET – Future Tech Group" and is also the Co-Chair of the "Telecom



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Committee of the Broadband India Forum”. SESEI expert through the IET- Future Tech Forum’s WG on Standards, Legal & Regulatory became instrumental in finalizing a “White Paper” on “National & International standards, Policy and Legislation around M2M/IoT & future technologies covering 5G, Artificial Intelligence & Blockchain” and through Broadband India Forum committee on promoting adoption of EN 301 549 as Indian standards across all Industry stakeholders by organizing an influential seminars and meetings on the topic.

SESEI expert is providing all possible support to European Industry for the advocacy on 3GPP based 5G standards adoption and implementation in India and on this, strong representations were made along with Industry, and a formal letter was submitted through European Business Group (EBG) and COAI to ensure that 3GPP standards shall be adopted in India for the cellular services in a timely and fast-track manner. [3GPP Standards up to the release 14](#) have been adopted as National Standards by TEC.

During India Mobile Congress (IMC), SESEI expert supported organizing a dedicated session on “5G & beyond” covering Standards, Policy & Research along with ETSI’s Project InDiCo & in partnership with TSDSI.

Resource Efficiency and Circular Economy are gaining major traction in India. SESEI along with CEN-CENELEC, GIZ project EU-REI, Swedish Standards Organization – SIS and in partnership with Bureau of Indian Standards (BIS) is organizing a webinar on the “Role of Standards & Policy in Resource Efficiency and Circular Economy Transition in India”. Speakers during the webinar are from Govt Think Tank Niti Aayog, Ministry of Environment & Forest, BIS, CEN-CENELEC, Indian & European Industry, and EU-REI project & its partners etc.

Two sector specific reports were also prepared & released by SESEI during this quarter. These reports are on ICT including Services and Smart Cities, providing latest update on the new initiatives, policies introduced by the government in the realm of these two sectors (ICT including Services and Smart Cities).

The regular interactions and meetings with the project partners and holding steering committee meetings are an important part of the SESEI Project activities to ensure matching of the objectives and timely action of the deliverables. Project partners helps SESEI expert to steer the effort in right direction.

List of draft standards released by Indian Standards organizations during this quarter is available as **Annexure-1** and the detailed activity tracker including list of queries, events and meetings addressed by SESEI Expert as “**Annexure -2** to this quarterly report.

Happy reading!!!

**Dinesh Chand Sharma**  
(Seconded European Standardization Expert in India)



## 2. Key Meetings, Event Participation and Queries

In this section, we are providing you with a snapshot of various activities performed by the SESEI expert during the period starting 1<sup>st</sup> October 2021 till 31<sup>st</sup> December 2021. Details of all the activities are presented below for discernment. A quick dashboard of the activity summary is provided below:

Sr. No.	Description	Total Until now	In Last Quarter (Oct to Dec 2021)
1	External Meetings	335	40
2	Internal Meetings	76	5
3	Events/Seminar/Workshop/Roundtable	332	44
	<b>Total</b>	<b>743</b>	<b>89</b>
4	No of Queries	93	8

Detail of few key meetings and event/workshop participation are briefly summarized below and for more information on these key meetings, events/workshop participations and list of queries addressed, please refer Activity Tracker report submitted as “Annexure -2\_Activity Tracker.

### Key Meetings:

Following are the list of key meetings, SESEI expert addressed during the last quarter (October to December 2021).

### Meetings with BIS:

#### **Generic:**

- **Meeting with International Relations Department (IRD) at BIS:** to discuss pending action Items and the way forward:
  - CEN-CENELEC-BIS MoU, ETSI-BIS MoU
  - Workshop/Webinar on Circular Economy
  - BIS pending response agreed to Foreign Lab registration Scheme
  - Collaboration Call with CEN-CENELEC
  - License Agreement: EN-115 & EN-81 adoption
  - Copyright agreement for Services Standards

As proposed, BIS also agreed to support the RE/ CEI standards without any financial obligations. It was also confirmed that the BIS & ETSI MoU has been finalized.



## Smart Cities:

- **23rd meeting of the Smart Infrastructure Sectional Committee, LITD 28:** The LITDC (parent committee of LITD 28) appointed Dr Inder Gopal, Research professor, IISc Bangalore as Chairman of LITD 28. Chairman in his opening remarks informed the committee about the meeting between LITD 28 and Joint Secretary, Ministry of Housing & Urban Affairs regarding the implementation of the standards published by the committee. He emphasized that the committee should shift their focus to develop implementation guidelines that will help in verifying the compliance with standards already published.

## ICT:

- **LITD35/P1 Panel: 5th, 6th & 7th Meeting of the LITD 35 Active Assisted living Sectional Committee:** This sectional committee is working on the standards for Accessibility for ICT Products and Services. SESEI is a member of this sectional committee and working towards adoption of EN301549. The main discussions during the meetings were:
  - Document Number- LITD 35(17829): The draft standard- 'Accessibility for ICT Products and Services, Part 1: Requirements' has been circulated for wide consultation.
  - The comments received from the Office of Chief Commissioner of Persons with Disabilities and the Members of LITD 35 were circulated prior to the meeting and discussed for approval during the meeting.
  - Dr Subramanian, Convenor of LITD 35/P1 Panel presented the working draft - "Accessibility for ICT Products and Services, Part-2 Conformance". The committee reviewed the same for approval and for circulation as p-draft.
  - discuss input/comments received from the members on Part 2 of Indian Standard based on EN 301 549.
- **LITD35/P1 Panel: 9th & 10th meeting:** BIS LITD 35 P1 meetings were held to continue discussion on the developments of the working draft- "Accessibility for ICT Products and Services, Part 2 Conformance". SESEI post reviewing all the feedback received, provided detailed comments on the draft standard. Comments provided by SESEI are as under.
  - We shall try to keep the Annexure C of EN 301 549, which is Annexure 1 in Part-2 draft same as it is in EN 301 549 and importantly with Pre-Conditions and Result as part of Type of assessment as it will help:
  - Industry to check the qualifying criteria as applicable for their product category and associated result/outcome with it.
  - Simplify updating our Indian standard with future updates/upgrades of EN 301 549 such as V4.0/4.1 briefed by ETSI TC Chair in our call addressing Services/Devices etc., which will also address/update the next updates of WCAG appropriately as well.
  - Keeping the same structure as it is Annexure C with links to WCAG success criteria is a better option as part of our Indian Standard because future updates of EN will address next releases of WCAGs and for an Industry user it is better to click those links with latest revision of applicable success criteria and comply with it.
  - As far as additional test specific to Indian requirements are concerned such as test criteria around applicable Indian Languages, we could still explore creating a separate annexure





for those conditions and create a similar test criterion as done for Annexure C while keeping the Annexure C same as it is in EN 301 549. This way, it will be easy for Industry to determine the additional test criteria on top of EN 301 549 and it will also be easy for future updates of Indian requirements with latest developments of EN 301 549. Just in case if it is late to be considered in view of time limitation, we could surely add these as part of Annexure C as additional test case scenario as well – clear identification of these additional test cases will help overall.

- **Discussion around EN 301 549 implementation worldwide:** Team members from BIS/CDAC drafting the Part 2 Determination of Conformity standard on “Accessibility requirements suitable for public procurement of ICT products and services” under the leadership of CDAC had few queries around implementation/compliance of this standard worldwide. On the request of the BIS /CDAC drafting committee, SESEI along with Dr. Nirmitha Narsimhan from G3ICT and Ms. Karishma Chhabra from Microsoft organised a conference call meeting and brainstorming session with the global experts to understand and get more insight into the implementation of EN 301549, best practices from different parts of the world. Ms. Laura Ruby and Ms. Ann Marie Rohaly from Microsoft Accessibility team and chairman of ETSI TC responsible for this standard joined the meeting to provide clarity and sharing of knowledge on the implementation of the Accessibility standards for ICT Products.
- **12th meeting of BIS committee on Interconnection and Information exchange among IT equipment and Systems Sectional Committee – LITD 13:** LITD 13 in joint session with 13th meeting of panel for mobile phone LITD 13/ P1 discussed items covering Composition of Sectional Committee / Panel, present scope and technical work programme of the committee, review / reaffirmation of published Indian standards, 2nd revision of IS 16333 (PART 3): 2017 “MOBILE PHONE HANDSETS PART 3 INDIAN LANGUAGE SUPPORT FOR MOBILE PHONE HANDSETS — SPECIFIC REQUIREMENTS (First Revision)” etc.

### Services:

- **BIS Fifth Study Group meeting of Digital Signature Committee:** 5th Meeting of the Study Group on Digital Signatures of Service Sector Department (SSD) II of BIS was convened. SESEI is an important member of this committee and is contributing to the group by providing information and knowledge on the EU / International standards on Digital signatures. Highlights of the discussions held during the meeting are as under:
  - ✓ Recommendation on the ISO standards i.e., ISO 14533 series and ISO/IEC 20248 (whether they can be adopted as Indian Standards).
  - ✓ The consolidated report from eMudhra covering the existing regulations, gap areas and current standards on digital signature and recommendation on ISO 14533 series and ISO/IEC 20248.
  - ✓ List of ETSI Standards on Digital Signature were shares by SESEI expert earlier. eMudra also stressed upon these important ETSI Standards.
  - ✓ The study group will discuss further and decide in the matter.
- **Third Working Group Meeting of Cloud Services, SSD 10/WG-1 of BIS:** BIS organized 3rd meeting of working group on cloud services. The working group requested the member



secretary to circulate ISO/IEC 22624 with the members for reviewing of the standard. Further, it was decided that the final decision on the adoption of ISO/IEC 22624 would be taken in the next working group meeting. SESEI expert shared detailed list of ETSI standards around Cloud Computing.

- The working group decided to close action item of having ETSI presentation on this subject as it will be considered only when Mr. Dinesh Chand Sharma or ETSI representative proposes to have the presentation on ETSI standardization of cloud services. SESEI expert informed the member that the work carried out by ETSI is already shared and if any specific query, please let me know.
- During the meeting, the members had a detailed discussion on the Ministry of Electronics and IT (MeitY) documents related to Cloud services. It was felt that after considering the harmonization with the other sectorial standards on disaster recovery an indigenous standard on 'Disaster Recovery in Cloud Services' can be considered.
- The working group also identified another area of standardization on "Cloud Outage Incident response" and talked about the fact that cloud outage incident response can be a part of the indigenous standard.

## Meetings with TEC/ DoT and other Govt. Bodies

### ICT:

- **TEC Meeting for "Finalizing IoT / ICT standards for Smart cities":** Virtual Meeting for finalization of the IoT/ ICT standards for Smart Cities" was organised by TEC. Updated draft document, Minutes of the previous meetings and the comments received from the Working Group Members were discussed during the meeting. The draft document is near completion, and it includes EU work submitted by SESEI expert.
- **TEC Meetings of working group on Smart Grid:** Draft document on "IoT and 5G applications in Smart Grid" was circulated to all members along with the minutes of the previous meetings and comments received from various members. SESEI shared ETSI TR 102 935 V2.1.1 (2012-09) on which is relevant to the subject and covers Machine communications (M2M); Applicability of M2M architecture to Smart Grid Networks; Impact of Smart Grids on M2M platform was circulated to all members for their review and comments. DDG IoT sought comments from the members based on the ETSI Document.
- **TEC Meetings of Working Group on "Security by design Principles in M2M device:** The working Group is finalizing Technical Report on "Security by design Principles in M2M device manufacturing and National Trust Centre for certification of M2M devices and applications". SESEI was asked to provide inputs, SESEI expert provided input covering work of European Union and CEN-CENELEC, ETSI.
  - DDG IoT, TEC also shared a document GUIDELINES FOR SECURING THE INTERNET OF THINGS,
  - Secure supply chain for IoT by ENISA (European Union Agency for Cyber Security). As early completion of the entire IoT chain needs to be ensured.
  - Draft document on National Trust center was also circulated



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- The Code of Practice for securing Consumer IoT, report was released by the working Group. All members and their contribution were appreciated by the Chairman of the Working Group.
- It may be noted that SESEI is working closely with TEC for adoption and implementation guidelines for Code of Practice and its deployment. SESEI has been tasked to share EU work around cybersecurity for the report.
- **TEC meeting of Consultative Committee for adoption of oneM2M Release 3 specifications:** Virtual meeting of Consultative Committee (CC) for adoption of oneM2M Release 3 specifications was held. oneM2M Release 2 specifications (14 TS) have been adopted as National Standards by TEC. It has taken around eight-nine months of time in deliberating on public comments and finally concluding the recommendations. These National standards are available on TEC website and may be downloaded using link (<https://tec.gov.in/onem2m>). Highlights of the discussions and actions items discussed during the meeting are as under.

DDG (IoT) requested Mr. Aurindam Bhattacharya, C-DOT to give a brief presentation about the features of oneM2M Release 3 specifications and the difference in features of oneM2M Release 2, 3 and 4 also. Mr. Aurindam Bhattacharya, CDOT described in detail, the differences between oneM2M Release 2 and Release 3, oneM2M feature summary by Release (1 to 4). Interworking/ collaboration of oneM2M with 3GPP, ETSI, OCF, AllJoyn, ITU, AloTI etc. DDG (IoT) requested all the members to peruse the oneM2M Release 3 specifications ([https://www.tec.gov.in/pdf/Whatsnew/Notice\\_comments\\_OneM2M%20Rel3.pdf](https://www.tec.gov.in/pdf/Whatsnew/Notice_comments_OneM2M%20Rel3.pdf)) and communicate to TSDSI in case of any issue. SESEI said that changes can't be made in these releases which have been already published, however they may be accommodated in the future releases.

## Meetings with EU delegates, EU project officers & officials from EU delegation in India:

### Generic

- **Meeting with Ms. Babette Desfossez Trade & Investment Commissioner Embassy of Belgium:** Ms. Babette requested a meeting with SESEI to discuss issues related to mandatory registration and certification of Products with BIS. SESEI expert provided all related information.

### ICT:

- **Virtual Meetings between Mr. Peter Stephens, Head of Secure by Design, Cyber Security, Department for Digital, Culture, Media and Sport and TEC Officials.** SESEI organized this meeting and discussed status of EN 303 645 adoption in India and its legislative framework and UK activities around it with TEC. During the last meeting SESEI held with DCMS exchange was held on the IoT security and security related standards in UK and India. During the meeting it was agreed that as next steps, SESEI will connect DCMS with TEC and set up a





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conversation with officials of Dept for Telecommunications to understand their appetite in converting the Code of Practice into legislation.

- TEC IoT officials shared experience on the converting the Code of Practice (and ETSI EN 303 645) and agreed to hold a joint webinar at a suitable date/time.
- TEC released its report on The Code of Practice for securing Consumer IoT. In this regard they are seeking SESEI's support to seek information and knowledge sharing on securing the IoT Supply Chain and other related issues.
- In continuation of the earlier meetings between DCMS, SESEI and TEC, another meeting was held with British Embassy officials. Embassy officials shared MoU updates under finalization between India and UK.

- **India-EU ICT Standards Project - Operational Meetings:** India - EU ICT Standard Project scheduled periodic operational meetings to discuss the status of the action items agreed previously and the new actions to be taken by the Project. The Meeting were attended by Officials from ETSI, EU delegation to India, SESEI, EU - India ICT Project, TSDSI, Danish Management. During the periodic meetings following agenda items were discussed and way forward decided.
  - Discussion on proposals submitted by TSDSI Members for project support
  - Discussion on proposal submitted by ETSI for project support
  - Discussion on proposals submitted by Project team if any
  - Next Steps and updates

SESEI Participated in these operational meetings for technical synergy.

## Meetings with Industry & Associations:

### ICT:

- **Invitation for attending meeting with NABL for Accreditation of Telecom Product Certification Labs:** SESEI was invited to share his knowledge and experience to NABL as part of expert group to frame an accreditation criterion for labs in India for taking care of Telecom Product Essential Generic and Interface requirements.
- **Introductory Meeting with Col. Ali Akhtar Jafri (Retd.) Dy. CEO, MAIT:** Col. Ali Akhtar Jafri (Retd.) has joined MAIT as Dy. CEO. A meeting was asked with SESEI. SESEI used this opportunity to provide Overview and status update on the Project SESEI and discussed the certification and registration related issues (CRO/CRS) with BIS. Asked Mr. Jafri to work on EoDB activities such as allowing foreign labs to be recognized by BIS to carry out CRO/CRS testing in their labs. Also, MTCTE shall be simplified like CRO/CRS with report acceptance from global Labs etc.
- **Virtual Meeting with Ms. Mugdha M.:** A meeting was requested by Ms. Mugdha M, a PHD student with research area as telecom policy and regulations to understand the policy, regulatory and standardization work in Indian Telecom Sector. During the meeting she sought insights on the ombudsman in telecom in India, rural connectivity, and telecom regulatory



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environment. SESEI provided all necessary information on the ICT sector in India. SESEI also gave an overview of the Project and its objective.

- **Meetings of the Standards legal and Regulatory WG - IET Future Tech Panel:** SESEI is the Chairman of the SLR Working Group and is working along with the members to draft a comprehensive White paper on the emerging technologies IoT, M2M, AI, Blockchain etc. covering all aspects both policy and standardization. During the meeting, draft Whitepaper was discussed, and the chairman requested all the members to give their inputs to finalize the same.
  - Comments received from members were discussed in detail and the same were incorporated in the draft White Paper.
  - Updates were made on UK policy work around Blockchain 3GPP NB-IoT, M2M Service Provider Draft License Guidelines, TEC, BIS and MoUD work around M2M/IoT and its role in Smart Cities Mission including highlighting Challenges as part of section 10 and recommendation as part of Section 11.
  - Mr. Aurindam Bhattacharya and SESEI finalized text on Application Service provider.
  - SESEI also worked on the Executive Summary, Introduction & final editorial updates, post which it was submitted to IET for their review and approval by the panel members.
- **Meeting with Broadband India Forum to understand EU-INDIA ICT Project:** Meeting was called by BIS with SESEI to discuss arrangement / proposition of EU-INDIA ICT Project. SESEI explained the project scope and activities ongoing through the project and role of SESEI.
- **Discussion for the Workshop titled "Enabling Access and Opportunities with Hybrid Learning":** SESEI participated in the preparatory meeting for the Workshop/ Webinar on "Enabling Access and Opportunities with Hybrid Learning" organized by BIF during the IIGF. The main key points and take away from the meeting were discussed by the group. SESEI is the Co-Chair of the BIF's Committee on 'ICT for Inclusive Ability (PwDs)' and was an integral part of the session building / conceptualization committee.

### Circular Economy & Resource Efficiency:

- **Preparatory call meetings for the proposed standard webinar on REI/ CE:** Conference call meetings between GIZ, SIS, CEN-CENELEC and SESEI were held on the organization of the proposed webinar on REI / CE standards under the purview of European Union's Resource Efficiency Initiative (EU-REI) for India. During the meetings, discussion was held on:
  - proposed Topics for the session
  - Proposed speakers
  - Organizations to be approached for supporting the event
  - List of action items were prepared between the organizing members

### Meetings with Project Partners:

- **Periodic Conference call meetings with CEN-CENELEC:** Periodic catch-up call was held between CEN CENELEC and SESEI to discuss the status of various action points pending covering SESEI-V, BIS MoU, Press release, Webinar on CE/RE, EN115 upgrade, EN-81 adoption,



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Market Access, Railways and Copyright agreement, Other pending action items from last Priority India call and how to handle them moving forward.

- **Conference call meeting with Ms. Margot Dor, ETSI:** Call was held to discuss the SESEI-IV timelines, budget savings and adoption of EN 301 549 etc.
- **SESEI Steering Committee Meeting No. SC#05:** The main topics discussed in the Steering Committee Meeting were: Project status comprising of administration and management as well as financial snapshots of the Project SESEI IV, SESEI Expert input on Major Activities, Current Work Programme & Timeline of deliverables, Updates from Partners on other relevant India-related initiatives/activities, Exchange between the Partners and SESEI on SESEI Survey, and potential no-cost extension of the project and SESEI – V discussion & Action Plan.
- **Meeting with CEN-CENELEC and GIZ for discussion on proposed webinars on Standards (CE and REI) for Indian Stakeholders:** A meeting with Dr. Rachna Arora of GIZ and her team member along with the CEN-CENLEC officials and SESEI held to discuss the proposal for holding a joint action/set of webinars on the EU-Indian policy and standard around circular economy collaboration.
- **Conference call with ETSI and TSDSI for participation in the India Mobile Congress 2021:** SESEI held a meeting with Ms. Bindoo Srivastav of TSDSI and Mr. Xavier Piednoir, ETSI to discuss the joint session being organized on the topic of “The path to 6G: Workshop on EU-IN vision for beyond 5G standards”. The session was sponsored by InDiCo. The discussion was held on the finalization of the topics and the key messages to be presented during the conference. The template for the webinar and other issues were also discussed.
- **Virtual meeting with DECT Forum:** Virtual meeting was held with DECT Forum to discuss the status of DECT in India and activities carried out until now and way forward. SESEI shared background, its status including a letter sent on behalf of ETSI DG in the past. SESEI assured all possible support on the subject.

### Key Event Participations:

SESEI expert participated in following events either to understand the ongoing latest activities around Priority Topics in India or present/share EU updates.

### Generic:

- **DIN/DKE Breakfast Series: China and Standardization.:** A short meeting / virtual discussion was initiated by DIN DKE on the political standardization strategies - China, USA, EU - in comparison. The main aim of the discussion was on to get a quick synopsis of strategies of China, EU and USA on standardization related activities and initiatives. SESEI attended the session to gain insight into the topic.



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- **World Standards Day 2021 celebrations - participation in the technical sessions -1:** Bureau of Indian Standards (BIS), celebrated World Standards Day (WSD) to mark the occasion. This year the theme was 'Our shared vision for a better world' identified by ISO/IEC/ITU. SESEI was invited to participate in the Technical Session - I: Standards for Sustainable Communities.
- **Made in India for the World – BIS Contribution to International Standardization' Workshop:** A virtual workshop to create awareness amongst the stakeholders on the significance of international standardization and the contributions made by BIS thereto. The workshop comprised of sessions on international standardization, BIS' Journey with IEC and ISO and overview of Secretariats and Projects managed by India. It also had a panel discussion to discuss challenges and opportunities for enhancing participation in international standardization, for which eminent delegates were invited.
- **29th CII National Quality Summit 2021: Quality Next: Raising Standards, Leveraging Innovation & Driving Excellence:** The CII National Quality Summit is an annual program conducted by CII in realm of Quality which translates into right policies and standards.
- **EBG Webinar with Mr Dammu Ravi, IFS, Secretary (Economic Relations), Ministry of External Affairs (MEA), Government of India:** A webinar was organised by European Business Group (EBG) on the topic "India-EU Trade & Investments post Porto Summit: The Way Forward."
- **India Sweden Innovation Day:** India Sweden Innovation Day was jointly organized by India Unlimited in association with Embassy of India in Sweden, Sweden India Business Council and CII. During the event, many topics were discussed involving various cross sectors such as, AI & Innovation, AI Start-ups, Health and Safety, Mobility & Road Safety, etc.

### ICT:

- **3rd Workshop on Advanced Digital Communication Technologies Toolkit for India organised by the Delegation of the European Union to India:** The Delegation of the European Union to India invited SESEI to attend virtual workshop. The workshop had panelist and participants from India, Europe, Sri Lanka, and Bhutan. SESEI attended the workshop and provided necessary intervention and input to ensure a technical synergy.
- **IEEE Conference on IoT for Rural Health Care 2021 (CIRH-2021) from December 16-18, 2021:** IEEE organized a 3-day workshop on IoT for Rural Health Care. SESEI was invited as an esteemed speaker to give perspective on EU policies and standardization work on IoT for Health. During the presentation SESEI Provided overview about Project SESEI, - e-Health, Role of Standards & Technology in Healthcare & Policy and Standardization work around healthcare (e-Health) both in Europe & India.
- **TSDSI-ETSI Session @IMC 2021 Conference on "The path to 6G:** During the India Mobile Congress, ETSI along with TSDSI jointly organized a workshop on the topic of "The path to 6G: Workshop on EU-IN vision for beyond 5G standards". The session was sponsored by InDiCo. The objective of the session was to lead to identification of areas of common interest for



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research and pre-standardization activities in “beyond 5G” and explore strategies for bringing vertical sectors from both regions on board in the critical phase of use cases and requirements definition, with a view to form a strong basis for the definition of one globally harmonized technical solution meeting these requirements.

- **Broadband India Forum along with the IIGF organised Workshop on “Enabling Access and Opportunities with Hybrid Learning”:** SESEI is the Co-Chair of the BIF’s Committee on ‘ICT for Inclusive Ability (PwDs). Through this Forum SESEI is working towards promotion and adoption of EN 301549. The main objective of the webinar was to increase awareness and engage the stakeholders on the need to have standards and policy which are inclusive for people with disabilities and to ensure that the future ICT technologies and products will enable the access and opportunities with Hybrid learning for the (PwDs). SESEI, summarized the webinar and the key takeaways at the end of the webinar and gave a formal vote of thanks.
- **ITU-APT Webinar on Spectrum:** ITU-APT foundation of India (IAFI) organized a webinar on “Telecom Reform Package”. To highlight about the recent relief package provided by the government to the ailing telecom sector, including moratorium on Spectrum Usage Charges and other financial measures.
- **6G Workshop by GISFI:** Webinar by Aarhus University along with GISFI on the 6G standardization and research work.
- **Seminar on Background of MTCTE and investment opportunities in Telecom & related ICT testing labs** due to recent announcement of MTCTE Phase - III and Phase-IV by TEC, organized by TEMA
- **Telecom Equipment Manufacturing Association (TEMA) organized a virtual webinar cum discussion forum on the strategy for 5G and 5Gi (developed by TSDSI) to seek viewpoint of the various stakeholders as a response to DoT.** TSDSI’s 5G Radio Interface Technology named as “5Gi” has recently been approved by the SG5 of ITU as a part of Draft Recommendation M. [IMT-2020.SPECS]. However, Top trade and technology bodies from the US and UK have told the Indian government that adoption of globally harmonized standard, the 3GPP 5G standard, will give a much-needed push to electronic manufacturing in India as companies will be encouraged to set up their operations in India.
- **A Mindset Shift- Reactive to Proactive Cyber organized by Data Security Council of India (DSCI):** DSCI experts provided guidance on incident response, investigation, and remediation in the new reality of remote operations.
- **The Digital Dialogues (TDD) to release BIF’s Study report on 6GHz Co-existence Study:** Release of the BIF's study paper on 6GHz Co-existence Study. Prof. Abhay Karandikar, Director, IIT Kanpur has been the mentor in the preparation of the Study report.
- **IET India Digital Conversations -Digital Transformation: A Catalyst for Sustainability:** In partnership with Siemens Technology India, intense conversation on the power of technology





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to drive a substantial impact on business along with meeting sustainability targets was the focus of the series.

- **Webinar on oneM2M- Technology Overview with GCF Certification for the development of Smart Ecosystem:** TEC organized a webinar jointly with GCF Certification. TEC adopted One M2M specifications as National Standards for IOT for Smart Cities. TEC post adoption of the IoT national standards is also working on Code of Practice for Securing Consumer IoT as well as guidelines and securing of the Supply Chain for IoT. In this regard, TEC is working closely with the global bodies to understand best practices for implementation of IoT technology as well as ensuring security of the same.
- **Webinar on "Quantum Networks: Realities and Opportunities" organized by ERNET India, SETS Chennai and CDAC Bangalore:** The objective of the webinar was to explore the possibilities of practical quantum communication systems design and deployment on a broader scale.
- **SDN & NFV India Congress 2021 organized by Nexgen Conferences,** to understand how SDN & NFV will benefit Cellular Operators in deployment of 5G Technologies in India.
- **"Digital Technology Innovations Series Webinar#3: "Fintech Advancements with 5G":** A joint webinar series on "Digital Technology Innovations – Case Studies from India and the Asia-Pacific Region" organized by TSDSI and ITU, with support from the Department of Telecommunications, select Ministries of Govt of India and other partners from the Asia-Pacific region. The third session of this series highlighted the 5G Use Cases for Fintech in India and the Asia-Pacific Region.
- **The Awareness Workshop on "ICT Accessibility and Standards" by C-DAC:** Workshop organized by CDAC, to create awareness in the stakeholders in terms of the Accessibility in ICT products & services and to brief about the standards- Accessibility for ICT Products and Services (Part 1: Requirements, Part 2: Determination of Conformance) developed under the LITD 35 Sectional Committee.
- **Webinar on SATELLITE GROUND SEGMENT IN INDIA - WAY FORWARD:** TSDSI partnered with IEEE-SA & Satcom Industry Association (SIA-India) to organize a workshop on Standardization in Satellite Ground Segment, wherein discussion on standards development activities in context of Satellite Ground Segment were presented.
- **Workshop on "Vehicular Communication Technology Evolution towards 6G" organized by IIIT-Delhi:** The aim of this workshop was to bring together Indian and international experts in vehicular communication and allied areas to deliberate, explore and present technical talks on the state-of-the-art development of inter-vehicular (V2V) and vehicular to infrastructure (V2I) communication systems for different areas of applications such as road safety, autonomous vehicles deployment, electrical and hybrid vehicles etc.
- **India-UK Future Telecom Partnership - Energy Efficient Networks, Resilient Networks, Secure Design, Low Density Rural Deployment, High Density Urban Deployment:** SESEI



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participated in these series of workshop to gain information and observe the current thought process of the Indian and UK Telecom Industry on the Telecom issues and Emerging Technologies. SESEI also provided relevant input to their work program.

- **Data Centre India 2021:** Bharat Exhibitions organized the 8th edition of their industry flagship event – Data Centre India 2021: Driven by growth in digitalization, rising cloud adoption and ambitious growth plans of operators, India’s data center industry is expected to double capacity and cross the 1GW mark by 2023.
- **India SatCom 2021:** The eminent speakers shared their views on the immense potential of satcom to augment the Digital Communications Infrastructure and Ecosystem in the country, and how it may be leveraged to help realize the national goal of ‘Broadband for All’, leading to a ‘Digital India’.
- **Webinar on Operationalization of Telecom Reforms 2.0 Way Forward:** ITU-APT Foundation of India organized a webinar to operationalize the various elements of the package for the targeted beneficiaries, necessary clarifications and understanding is required, through interpretation of the details by the domain experts.

### Mobility:

- **Mobilogues: Topic 6: E-Mobility Transition in India organized by Ministry of Housing & Urban Affairs, with GIZ and CRDF.** The Mobilogue discussed various aspects of electric mobility (EM) such as EM strategies, E-Bus routes, preparedness assessment for EM in cities, and innovative financial models. It also discussed India’s experience of EV adoption and the existing challenges and opportunities that can strengthen the evolving EV ecosystem.
- **On Inauguration of Indian Space Association (ISpA) a webinar was organised by association on " Opportunities for the Indian Space Industry":** The Government as part of the initiative to energize the Space Sector and make India “self-reliant and technologically advanced” had undertaken a historical step of opening Space to private Industry.
- **E-launch of Report - A Critical Review of Smart Charging Strategies and Technologies for Electric Vehicles:** GIZ organised a webinar on importance of smart charging in India wherein the experts discussed on critical aspects related to EV charging such as impact of EVs into the power system and power grid: challenges and opportunities. During webinar a report titled "A Critical Review: Smart Charging Strategies and Technologies for Electric Vehicles" was released.
- **Webinar on Renewable Energy and Storage Technologies for Charging Infrastructure.by Virtual Delegation from Germany:** The Indo-German Chamber of Commerce (IGCC) organized a (Virtual) Delegation on the topic of Renewable Energy and Storage Technologies for E-Vehicle Charging Infrastructure in India. Indian stakeholders (regulatory bodies, research institutions, financing agencies as well as companies) engaged in the fields of renewable energy as well as energy storage & infrastructure for e-vehicle charging participated in the programme.



- **IESA Global Open Webinar on Urban Air Mobility (UAM) & Technology Development:** IESA has been mobilizing businesses in the urban air mobility space at global scale. This webinar covered all the aspects of UAM/UAS activities and best use cases and would answer the rising concern on the UAM security.

## **Energy Efficiency incl. Circular Economy:**

- **Virtual address on 'Ambition and Action in the fight against climate change and biodiversity' Horizon Europe Launch Event in India:** Ambassador of EU to India H.E. Mr. Ugo Astuto's virtual address on 'Ambition and Action in the fight against climate change and biodiversity'.
- **Indo-German Chamber of Commerce in collaboration with the Indo-German Energy Forum organized a virtual knowledge session on "Certification of Green Hydrogen:** to give insights into the certification and EU import requirements for green hydrogen.
- **CII organized an International Conference "One Sun, One World, One Grid (OSOWOG)" initiative:** The conference aimed to create awareness about the initiative, share perspectives on the policy, regulatory and technology aspects as well as explore scope of partnership.

## **Key Queries addressed:**

### **Generic:**

- Information on Conformity assessment schemes of BIS i.e., Scheme-I (ISI mark scheme) and Scheme-II (Compulsory Registration Scheme): **Embassy of Belgium, Government of Flanders**
- Input to a chapter on EU-India and Germany Trade Co-operation: **Prof. Dr. Monika Schädler**

### **ICT:**

- Inputs on TEC Technical Report on "Security by design Principles in M2M device manufacturing and National Trust Center for certification of M2M devices and applications": TEC
- Query on **ETSI 5G Building blocks and 6G** work in Europe: TEC
- Information on **TSDSI, ETSI & 3GPP membership:** Department of Information Technology and Telecom, Ministry of Information and Communications, Bhutan
- Responses to questionnaires on **development of IoT in India:** Attachée Sectorielle Numérique et Ville Durable | Attache Digital and Sustainable Cities

### **Smart Cities:**

- Inputs to TEC report on "Finalizing IoT / ICT standards for Smart cities": Telecom Engineering Centre (TEC)



**Electrical & Electronics:**

- Query regarding **qualification/certification process for EN standards** for cables manufacturer based in India: Garg Associates Pvt. Ltd.

### 3. Planned Activities for Next Quarters

- Yearly regulatory and Tax compliance for EU and Quarterly for India
- Press Release post signing of MoUs by DG CEN-CENELEC & ETSI
- Discuss and Submit Framework License Agreement of CEN-CENELEC
- Find out ways and mean for adoption of EN-81 series and EN-115 upgrade request of BIS
- Coordination Calls with BIS on MoU & areas of mutual interest
- Webinar on Consumer IoT Security with DCMS, UK and TEC
- Web Meetings and Webinar discussion with Railway Ministry & RDSO
- Adoption of oneM2M Release 3 as National Standards
- Release of BIS Catalogue
- Mapping of EU/EFTA investments and stakes in India - Report
- Release of quarterly newsletters and quarterly report
- Continue working with TEC about Security, Smart Cities, oneM2M, Energy Efficiency etc.
- Continue working with BIS on Digital Signatures, Smart Cities, Accessibility, Circular Economy, Services etc.
- Start preparation for Final Report

### 4. Glossary

Sr. No.	Acronym	Expansion
1	TRAI	Telecom Regulatory Authority of India
2	EV	Electric Vehicle
3	FAME	Faster Adoption and Manufacturing of (Hybrid) and Electric Vehicles
4	ETD	Electro-Technical Department
5	EEG	European Economic Group
6	LITD	Electronics and Information Technology Division Council
7	ICT	Information and Communication Technology
8	SSD	Service Sector Department
9	DoT	Department of Telecommunications
10	TEC	Telecom Engineering Centre



11	ETSI	European Telecommunications Standards Institute
12	SESEI	Seconded European Standardization Expert for India
13	WG	Working Group
14	C-V2X	Cellular Vehicle-to-Everything
15	IoT	Internet of Things
16	M2M	Machine to Machine
17	EU	European Union
18	ITU	International Telecommunication Union
19	SG	Study Group
20	EBG	European Business Group
21	TSDSI	Telecommunications Standards Development Society India
22	AI	Artificial Intelligence
23	5G	Fifth Generation
24	PWD	Person with Disability
25	BIF	Broadband India Forum
26	CEN	European Committee for Standardization
27	CENELEC	European Committee for Electro-technical Standardization
28	VLC	Visible Light Communication
29	LiFi	Light Fidelity
30	GISFI	Global ICT Standardization Forum for India
31	NCCS	National Centre for Communication Security
32	COAI	Cellular Operators Association of India
33	EC	European Commission
34	RDSO	Research Design & Standards Organization
35	GoI	Government of India
36	BIS	Bureau of Indian Standards
37	ICT RA	ICT Reference Architecture for Smart Cities
38	MoHUA	Ministry of Housing & Urban Affairs
39	MEITY	Ministry of Electronics and Information Technology
40	ASEAN	Association of SouthEast Asian Nations
41	R&D	Research & Development
42	MoP	Ministry of Power
43	MNRE	Ministry of New and Renewable Energy
44	ISGF	India Smart Grid Forum





45	MoU	Memorandum of Understanding
46	PLI	Production Linked Incentive
47	ACC	Advanced Chemistry Cell
48	MoRTH	Ministry of Road Transport and Highways
49	NCSC	National Cyber Security Coordinator
50	CE	Circular Economy
51	RE	Resource Efficiency

