

Quarterly Report (July–September 2014)

October'2014

SESEI

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1 Update on Project Activities (Generic)

1.1 Meeting with Mr. Ceri Jones Swansea University, Wales- 28/7/2014

Mr. Ceri Jones of Swansea University (Wales) along with the European Business and Technology Centre (EBTC), New Delhi met with SESEI during his 3 day exchange programme in India. During the meeting SESEI shared details of the Project including ESO's activities on education about standardization, how Indian Universities and SME are engaged in the activities of R&D and standardization. Mr. Ceri Jones gave introduction about Enterprise Europe Network ([EEN](#)) Wales/ EEN India and how the networks are organized on a management level. He further described the role of universities, how they engage with businesses and the main universities in India.

1.2 Indo-German Roundtable on Food Safety Standards -8/8/2014

The Indo-German working group on quality infrastructure for cooperation in standardization, Conformity Assessment & Product Safety, along with the Bureau of Indian Standards (BIS), organised a roundtable on the Food Safety Standards on 8th August 2014. SESEI was invited to attend the roundtable by The Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH ([giz](#)) India. The main participation in the roundtable was coming from the food safety and agricultural industry stakeholders and concerned officials from BIS. The following conclusions emerged from the meeting:

- The roundtable aimed to initiate bilateral dialogue on harmonization of standards in the areas of food hygiene and safety. Various topics of interest to both the sides such as implementation of food safety standards, compliance to technical regulations and capacity building needs were discussed during the event.
- The outcome of the roundtable is expected to provide the specific training needs for the Indian industry and other areas of cooperation.

SESEI attended the roundtable to connect with both EU and India stakeholders responsible for standardization and to show commitment towards standards harmonization through project SESEI. The Working Group responsible, Ms Ruth Buettner, has asked SESEI for a separate meeting to discuss other standards activities ongoing at giz as part of the Indo – German co-operation.

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2 Update on Standardization Activities (Sectorial)Automotive

2.1 Automotive

1. Conference call with TEC Automobile Working Group - 14/7/2014

SESEI is an active participant of the TEC M2M working group. Use cases, as consolidated by the group members, were discussed during this conference call. In particular, use cases on NFC and overview of ETSI ITS activity were looked at. During the discussion SESEI was requested to provide feedback on NFC inclusion in the ITS standardization at ETSI.

In this respect, the SESEI with the help of ETSI colleagues provided update on ETSI EN 302 665 which outlines the architecture aiming at providing a modular approach. NFC is just another physical access layer which can be used in the framework of this ITS Communications Architecture. For doing so, it is necessary to use the corresponding interfaces between the layers. NFC as such is not standardized by TC ITS. However, if there are specific ITS requirements for NFC, e.g. payload handling, one can do associated standards at TC ITS.

On this topic a follow-up call was held on August 13th, to which the SESEI participated, to further discuss the following points:

- Discussion on the use cases submitted by therepresentative from STMicroelectronics on NFC.
- Group decided that NFC paired with smart phone can be used as an alternate medium of communication for critical services and can be used as primary medium for non critical service.
- Group will identify the use cases priority order and important from Indian Prospective
- Once the common template to capture use cases is finalized all applicable use cases will be described in the standard template.

2.2 Electrical Equipment including Consumer Electronics



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1. Meeting with Deputy Director, Indian Chamber of Commerce -4/7/2014

Meeting with Mr. Bodhisattwa Mukherjee, Deputy Director, Indian Chamber of Commerce was organized at their request. Mr. Mukherjee shared details about their forthcoming day-long conference “Electronic System Design & Manufacturing (ESDM) Conclave 2014”. The programme was being organized under the aegis of Department of Information Technology (DeiTY), Ministry of Communication & Information Technology, Government of India. Mr. Mukherjee invited the SESEI to attend the conference. The SESEI took this opportunity to explain the scope of Project SESEI and highlighted that Electrical including Consumer Electronics is one of the priority sectors.

Mr. Mukherjee discussed the possibilities of working together with SESEI in future on standards related issues and organizing conferences and workshops. It was agreed to work together when relevant and contribute on the subject of standardization around the project priority sectors.

2. Conference call with Mr. Vimal Mahendru on LVDC in INDIA – 28/7/2014

SESEI is continuously engaged in discussions and interaction with Mr. Vimal Mahendru on the subject of LVDC and Electrical Equipment Standardization activities in India. Mr. Mahendru, representing Legrand group, is an active stakeholder in the Electrical and Electronic Component Industry.

On the topic of LVDC in India a conference call was held between SESEI and Mr. Mahendru to discuss the activities of IEEE & BIS on LVDC. Mr. Mahendru provided details on the Emerge Alliance, which has started a South Asia Chapter. It is interesting to note the coordinated effort in India and South Asia toward LVDC. SESEI is monitoring and keeping track of LVDC activities in India and working closely with CEN CENELEC, Mr Mahendru and the Indian Industry on this subject and potential harmonization at IEC/CENELEC levels.

Follow-up call with Mr Mahendru held on 4/9/2014

SESEI had a conference call with Mr. Mahendru to discuss the consolidated report on LVDC in India. Based on the discussions held and input suggested, SESEI finalized the presentation and report on LVDC activities in India.

3. Conference call with Mr. Herve Gauthier -19/8/2014

SESEI had a call with Mr. Herve Gauthier of CEN CENELEC to discuss and catch up on below ongoing activities:



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- EN 115-1 potential adoption and related exchange of e-mails with CEN TC Chair Mr.Esfandiar Gharibaan
- Possible Bilateral meeting discussion with BIS during the next ISO GA
- LVDC Forum activities in India

4. SESEI meetings with BIS Officials from IRD, ETD, and LITDC- 22/8/2014

SESEI scheduled a meeting with BIS International Relations Department (IRD) team members to discuss the proposed MoU between BIS and ETSI and bilateral meeting between CEN CENELEC delegation and BIS at the sideline of ISO/GA. During this visit SESEI also met with Electrotechnical Technical Department (ETD) Head and team members to discuss LVDC in India, Smart Grid/Meter, EN-115 adoption. Finally, a last meeting was held with the ICT head to discuss the Mobile terminal standards and associated MoU between ETSI & BIS.

5. GoToMeeting Invitation - CENELEC ad-hoc WG on LVDC in India – 25/8/2014

A GoToMeeting was held between CENELEC ad-hoc Working Group and SESEI to discuss on LVDC in India. The SESEI expert introduced the situation on LVDC in India and apprised participants that IEEE appears to have taken the lead on this topic along with many other industry stakeholders in India. IEEE activities in India are broader than just LVDC as they also cover smart grids, Smart meter and cloud computing among other subjects. Few Projects and activities such as below are important to be noted:

- IEEE has signed MoU with Indian electrical association IEEMA to cover topic around SMART ENERGY including LVDC. IEEE is also conducting next intellect event in India through this association "IEEMA".
- IEEE is an Associate Member of ISGF (India Smart Grid Forum), which is being promoted by the Indian Ministry of Power.
- US Trade and Development Agency (USTDA) has funded a technical assistance project with CPRI (Central Power Research Institute), the R&D power house of the Indian electrical industry, set up by the government of India. The scope of the project is to prepare the implementation of a Smart Grid Test Bed in India. IEEE is working very closely with CPRI

During the discussion, SESEI also highlighted that BIS is currently in the process of amending its Act in order to have the flexibility to adopt standards other than ISO and IEC. Based on this update, the Group discussed what would be CENELEC's strategy regarding LVDC in India and how it could be achieved. Members agreed to pursue this subject with IEC and a harmonized approach will be best way forward.

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6. Conference call with M2M Power Working Group under TEC - 2/9/2014

SESEI participated in the Conference call meeting of M2M Power Working Group. The Group Chair presented and discussed the document on Communication Technologies for M2M devices in Indian Power Sector covering all possible communication use cases types such as:

- 1) Communication Use Case Type 1: A local mesh scenario with remote application server
- 2) Communication Use Case Type 2: Distributed Metering Infrastructure
- 3) Communication Use Case Type 3: Latency Critical Applications

On this call, M/s Narnix Technologies presented their work on critical communication Infrastructure. Finally, the India Smart Grid Forum (ISGF) survey report titled "SMART METER SPECIFICATIONS OF LEADING METER MANUFACTURERS IN INDIA" was presented. This report was prepared to enlighten about the latest technologies used in Advanced Metering Infrastructure (AMI) covering nine leading meter manufacturers in India. The survey consisted of four parts namely, Communications, Ports, Standards/Protocols and Power Consumption. This report concludes as below;

Meter manufacturers in India are doing a tremendous job in transforming the vision of AMI into reality. On the communications front, several technologies are available to them. The type of communication technology to be used in India will depend on the geographical requirements and constraints of specific areas. It is evident that the meter manufacturers are using different protocols and specifications in the absence of standards. Therefore it is important for the Bureau of Indian Standards (BIS) to release Indian standards for smart meters and AMI on fast track

7. Conference call with Mr. Herve Gauthier, CENCENELEC - 17/9/2014

SESEI and Mr. Gauthier had a conference call to discuss BIS related activities post the ISO GA bilateral meeting between BIS and CEN CENELEC Delegation. The following items were discussed during the call to decide the way forward:

- Cooperation agreement between CCMC and BIS
- EN 115 adoption status at BIS.
- BIS – CEN CENELEC joint workshop
- Possible visit of CCMC official to India to address a) MoU b) Joint Workshop c) adoption process and possible closure of EN115 adoption d) LVDC etc.

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2.3 Machinery

Lift & Escalator update is covered as part of Electrical Equipment.No major activity to be reported this quarter.

2.4 ICT including Services

1. M2M Standardization activities in India and SESEI participation

In India M2M standardization related activities are being initiated by TEC (Telecom Engineering Centre) and the newly formed Telecom Standards Development Society, India (TSDSI). Both the agencies have formed various M2M Working Groups, covering all possible and important horizontal and verticals. These Working Groups organized Audio / video conference calls, meetings regularly to take forward the M2M standardization efforts in India. SESEI is an active member of both the TSDSI as well as the TEC. Update of the various TSDSI and TEC M2M Working Group meetings attended / participated by SESEI are provided below:

TSDSI M2M Working Group:

As ICT is one of the priority sectors of Project SESEI, we are following up this working group development to keep a track of activities and align it with development taking place at ETSI Smart M2M Technical Committee and OneM2M Partnership Project. Key outcome from these conference call are as under;

a. TSDSI – M2M Conference calls- 1/7/2014:

The main agenda of the conference call is discussion on the Study Items and finalization of Issue Identification template.The outcome of the conference call is as under;

- Chairman, while discussing the vertical industries, suggested that the group should include the Ministries which are responsible for applying M2M in their respective sectors, E.g. urban development, transport, health, home security etc.
- Team discussed and agreed that it should start with capturing use cases in form of short description. At later stage, once the scrutiny is done, the Working Group will elaborate shortlisted use cases in a standard format.



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Follow up call on 14/8/2014

Working Group Chair provided inputs from his participation as TSDSI representative at oneM2M Partnership Project meeting. Working Group Chair suggested sub working group experts to focus on verticals such as:

- Automobile, transportation and Logistics
- Utilities (Energy, Gas and Water)
- Healthcare
- Agriculture
- Environment (pollution control)
- Internal Security (Public safety)
- Smart infrastructure
- Remote asset Monitoring
- Track & Trace
- Naming and addressing
- Data security and privacy
- Service layer architecture, interfaces and protocols
- Impact or requirement of expected M2M Services RAN and Core

WG Chair also updated the team members about oneM2M candidate release http://www.onem2m.org/candidate_release/ open for public comments.

TSDSI M2M-WG is exploring providing comments to oneM2M. They are also planning to become a Partner of oneM2M.

Follow-up call on 8/9/2014

- A detailed discussion was carried out on topic of study items and group agreed that study topics would cover verticals such as Utilities, Transportation, Remote Asset Monitoring, Health, Agriculture, Smart Energy, Smart Cities etc. Naming & Addressing, Security & Privacy, Interfaces and Protocols, Impact on Radio Active Network and Core Network etc.
- Template format for capturing use cases was discussed in details. Group chair updated that the Use case specification (I am deliberately calling this document as a specification) is quite elaborate and should be the key output document from a vertical sub working group.



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- OneM2M candidate release was discussed and asked members to give their feedback timely. The TSDSI M2M “Gap Analysis with Global SDOs” Work Item members will provide support in the review process and prepare the final version of the TSDSI comments to be communicated to oneM2M. There are 9 specifications for review with deadline of comments submission by 1st Nov hence group agreed for a timelines and responsibilities for its timely submission.

b. Conference call: TSDSI M2M Gateway and architecture WG - 14/8/2014:

The purpose of this conference call was to discuss the consolidated [response](#) to the [M2M questionnaire](#) as prepared by Department of Telecom to discuss and analyze the possible impact on the M2M architecture. During the call response to these questions was discussed to determine the policy measure while working and finalizing the M2M architecture and vertical domains. Group agreed to focus on oneM2M architecture release and determine if any India Specific application requires a change in it and if so submit the same to oneM2M partnership project.

TEC M2M Working Group Updates:

a. Conference call on TEC M2M Health WG - 10/7/2014:

SESEI is an active participant of all the M2M verticals initiated by TEC and regularly participates and contributes in all the meetings. SESEI attended the audio conference for “M2M_Health” having main agenda of the meeting as “M2M health” use cases specific for India. During the discussion SESEI was requested to provide views/status of oneM2M/ETSI response related to ITU-T H.810 Continua Design Guidelines on oneM2M Architecture. SESEI provided the following details via email to all the participants:



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- Continua is a Partner Type 2 in the oneM2M Partnership Project.
- Mr. Michael Kirwan (Editor of the document - ITU-T H.810 Continua Design Guidelines) is regularly participating in the technical work of oneM2M.
- Currently Continua is evaluating in their TWG (Technical Working Group) to better understand the differences (specifically, what does Continua need to change and what's going across the wire). The target is that Continua will reference oneM2M Specifications in their Guidelines. Continua currently also evaluating, how they can offer a demo of oneM2M architecture in the oneM2M Showcase planned for 9th December in Sophia Antipolis. ETSI's eHEALTH is also very well aware and cooperates with Continua & vice versa.

Follow-up Call on 21/8/2014

- Mr. Subhash Punja from Robonik India updated that his organization works in field of Instrumentation, Urine analysis equipment, Haematology analysis, Hb measurement etc. All these devices have USB interface.
- SESEIexpert informed the group that Continua is working on harmonizing their architecture and standards with OneM2M. The work is in progress.
- The meeting continued with updated consolidated doc on [use-cases](#). Brief discussion on Patient Identification held, TEC suggested adding [Aadhar Number](#) as Patient Identification number in addition to the biometric sensors. Group agreed that Ministry of Health can be consulted for their inputs on Patient Identification.
- Mr. Ashish from Clarity discussed about the use-case of Video Conference System for Tele-Medicine.

Follow-up Call on 4/9/2014

In this M2M Working Group conference call the work progress and consolidated use cases, as well as new cases for submission, were discussed. The following updates were presented:



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- AIMED (Association of Indian Medical Device Industry) is participating in the M2M Working Group. Members representing the Association are: Mr. R Balamurugan, AVP – HCL Technologies, Chennai & Jt. Coordinator – Electronics Vertical Group (EVG) – AIMED, Mr. Subhash Punja, MD – Robonik India, Mumbai & Jt. Coordinator – Electronics Vertical Group (EVG) – AIMED, Dr. G Bhuvaneshwar, Director - Innovation & Edn, Trivitron Healthcare, Chennai & Jt. Coordinator – Regulation – AIMED
- Laboratory Information System to be incorporated as one of the use-case.
- Status and Progress on Rural Healthcare use-case informed to members. Data should not get corrupted or modified in the communication channels. This shall be added in the Patient Safety requirements. Discussion and presentation carried out on “Elderly care/Assisted living” use-case and “fall detection”.
- Continuous monitoring, Routine checkup scheduler, Reminder for medicines, Activity monitoring requirements are discussed. Some of these requirements are covered in the Continua Architecture.
- “In-home Dialysis” is also a requirement for Tele-medicine and Elderly care. It was also commented that complete information on usage of information shall be recorded. This will provide the total requirements of personal safety and security requirements. The information on rural care hospital or primary health-care center etc. needs to be included.
- Issues regarding Elderly care, Security and Encryption technology were debated and it was clarified that the Working Group will include what is available. It was also suggested that this requirement shall be defined and debated in Architecture group. A member suggested that encryption shall be part of wearable devices. It was clarified that we can have security like WPA in WiFi pairing, like handshaking on open-networks. The discussion concluded that all interfaces needs to be secure.
- More used cases required to be discussed by the Working Group such as Remote Drug delivery Wearable devices Medical Asset tracking etc.

b. TEC Surveillance and Security WG meeting - 16/7/2014

SESEI participated in the audio conference call meeting of the TEC Surveillance and Security working group. The main objective of the participating in these meetings is to monitor the



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progress of WG and align/update ETSI/CEN CENELEC updates to the group. SESEI shared following information during the call;

- ETSI white paper on Security covering all including M2M Whitepaper on Standards and Security Related standards are available at: <http://www.etsi.org/technologies-clusters/technologies/security>
- Security Working Group of oneM2M and its work/docs are available at: <http://onem2m.org/SEChome.cfm>
- Standards related to Emergency/Catastrophe are available at: <http://www.etsi.org/technologies-clusters/technologies/emergency>
- Next generation eCall TR “eCall for VoIP” were also mentioned.

c. TEC M2M - Security and Surveillance WG – 27/8/2014

SESEI participated in the biweekly call on TEC M2M WG on Security and Surveillance. The highlights of the meeting are:

- 1. New member joined the group – Mr. Krishna from Reliance Jio, 2. Group discussed on use case shared earlier. It was decided to include more use cases covering different segments. 3. Mr. Krishna agreed to share few use cases before the next call and as well share the Onvif standards doc to the group 4. Group discussed on the list of questions shared by Mr. Neelesh as listed below;
 - a. How different makes of cameras can talk to single NVR?
 - b. How different makes of NVR can talk to single VMS?
 - c. What physical interface should be there to ensure integration of different devices?
 - d. What communication protocol to be used for video data transferred?
 - e. How the data to be stored, retrieved and archived in CMS?
 - f. What should be the standard way to share the stored data in VMS with other systems?
- Major components in various use cases are Camera, NVR, Connectivity, VMS, Analytics

As a next step, the follow-up activities would be; a. Group to add queries to the list of questions shared by Neelesh earlier, b. Group to submit their responses to the above questions. c. Group to suggest available standards in surveillance.



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Follow-up call on 19/9/2014:

- Mr Kannan from Mediatronix shared 2 use cases on City surveillance and ANPR. It was mentioned that US has allocated separate frequency band for surveillance applications. He also mentioned that Onvif – S should be referred as open protocol for IP cameras.
- Another open protocol used earlier was PSIA; however Onvif being the latest standards should be used going further.
- Legacy cameras can be integrated using RTSP protocol. Camera diagnostics and Health monitoring / Heart beat monitoring of every field equipment is essential.
- Group discussed on security use cases and mentioned that sensors will be required in overall solution especially when remote corner needs to be covered. Advanced security requirements need combination of Audio, Video, Sensors and software applications.
- For ANPR use case, it was mentioned that pictures should be stored locally and only numbers should be transferred at data center. This will result in low bandwidth requirement. Pictures can be transferred on demand or event based.
- 3 more use cases to be discussed by the Group i.e. use cases on Warehouse, ATM, Energy sector and gated community. Members to share the typical architecture for these use cases to understand the data flow and interface points.

d. TEC - F2F meeting of all the working groups of M2M domain – 29/9/2014

F2F Meeting of TEC M2M working groups i.e. Health, Automotive, Architecture, Power and Surveillance was scheduled by TEC on 29th September 2014. All working group reported the progress of activities carried out such as Use cases consolidation, list of standards if applicable and way forward. All WG Chair were asked to prepare a summary of the progress and present it to the JWG meeting for approval.

The meeting continued the next day where the summary report on the progress of WG on Health, Automotive, Architecture, Power and Surveillance was discussed with JWG members.



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Progress made by the Working groups was applauded. WG chairs were asked to target finalizing a technical report on these finalized use cases by Dec. JWG Chair also suggested creating a WG on M2M Security covering architecture, telecom, and Cyber angle of it. Group agreed to establish this WG which will study all work ongoing/done in this domain and to list down key security feature functionality guidelines.

2. Update on Core Network WG at TSDSI

Conference call with TSDSI Core Network WG- 9/7/2014: SESEI attended this conference call of the TSDSI Core Network Group and update is:

- Intel submitted an issue statement with title “3G / LTE – WiFi interworking for seamless experience across HetNet deployments”. Presentations made by Sudeep and Anand (both of Intel). The presentation was well received by the members. Action points were;
- Status of integrated 3GPP-WLAN RAT proposals in 3GPP to be clarified by Intel
- Members interested in joining the 3GPP-WLAN interworking study to respond to respective chairs ASAP
- A joint RNES-CN sub WG to be formed study 3GPP-WLAN interworking proposals

3. Meeting Dr Klaus Pendl, Counsellor at EU Delegation in India -1/7/2014

Meeting with Dr. Alexander Klaus Pendl, Counsellor - ICT at EU Delegation to India was held to discuss the various ongoing activities in ICT areas. Meeting provided an opportunity to discuss the status of TSDSI, GISFI and other ICT standardization at BIS etc. Taking the discussions forward, SESEI is continuously engaged in discussions with the EU delegation to address ICT related standardization, policy and legislations. In this regard a joint meeting between Dr. Asok Chatterjee, Executive Director of TSDSI and Dr. Alexander Klaus Pendl was organized by SESEI.

Follow-up Meeting– 26/9/2014

As part of ongoing engagement an informal exchange of ICT activities updates in India, SESEI discussed various ongoing activities around ICT including R&D and Innovation workshop as planned by EU Delegation office, IEEE activities in India covering topics such as Cloud Computing, Smart Grid, LVDC including event plans for next year etc.



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4. **GotoMeeting with Mr. Michael Sharpe - Radio Equipment Directive, EMCD & LVD - 15/7/2014**

With the help of Mr Bernardo Correia and on the request of SESEI, A GoToMeeting was organized between SESEI and Mr. Michael Sharpe to discuss and understand the revised Radio Equipment Directive including EMCD and LVD and to address the industry query " Whether IEC 62684: Micro USB Chargers is Mandatory in EU".Mr. Sharpe provided an all-inclusive insight into the revised radio equipment directive and an update on EU initiative on the subject of Universal USB charger. Presentation provided a great insight into the subject and was welcomed by the SESEI.

5. **Discussions held with Mr. Luis Jorge Romero, Mr. Adrian Scrase, Ms. Margot Dor, Mr. Jorgen Friis and Mr. Bernardo Correia from ETSI over Go-to-Meeting on the upcoming GSC#18 and TSDSI participation - 18/7/2014**

SESEI along with senior officials from ETSI's held a discussion via conference call on participation planning and preparation for the Indian delegation attending the GSC-18 Meeting and current status of TSDSI. The discussions were mainly on below items as presented by SESEI:

- Status of TSDSI: participation in OneM2M, IPR discussions, WG structure, etc.
- Ongoing discussions for the adoption of ETSI standards (TC EE ones) by TEC vs TSDSI
- The Indian delegation to GSC#18 will be composed of , Mr. R.K.Pathak, DoT , Mr. A K Mittal, Sr.DDG/TEC and Dr Asok Chatterjee, Executive Director Standardization, TSDSI.

In this respect, the SESEI also organized a meeting with Mr. R.K.Pathak, DDG (IP), Mr. A.K.Mittal DoT to discuss their visit to ETSI for attending the GSC#18, brief the visiting delegation about ETSI, GSC-18 and topic of discussions.The event was highly considered in regards to DoT/TSDSI request to allow the Indian Telecom standards development Body (TSDSI) for becoming an official member of GSC. SESEI provided all needed details as asked by the visiting delegation.



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6. Meeting with Mr. Vimal Chawla from Apple, INDIA - 22/7/2014

Apple India requested a meeting with SESEI to discuss Project SESEI and explore cooperation on the subject of Mobile Terminal Standardization. During the meeting SESEI gave update on Project SESEI background, scope, status of Mobile Terminal Standardization with BIS, the ongoing MoU discussions between ETSI-BIS, SESEI engagement with DoT, TSDSI etc.. SESEI assured full cooperation and as well advised them to work closely with BIS/TSDSI and Project SESEI on the Mobile Terminal Standardization subject.

7. Meeting with Ms. Shilpi Batra and Mr. Subhankar Mitra of m2mpaper.com – 25/7/2014

Visiting official of m2mpaper.com, Singapore office requested a meeting to discuss M2M subject in India and explore further cooperation with Project SESEI. In continuation to the discussions and interactions being held with the m2mpaper.com, SESEI met with Mr. Subhankar Mitra and Ms. Shilpi Batra from OneM2M Forum and discussed M2M activities in India, how best SESEI and the Indian m2mpaper.com can support each other to promote the M2M technologies in India. SESEI gave insight into ETSI TC Smart M2M activities, the oneM2M Project and ongoing activities in India on this subject at TEC and TSDSI. SESEI assured full support and cooperation towards m2mpaper.com on the subject of standardization in this area.

8. Meeting with Mr. Debdas Goswami, Scientist-F & Head LITD, BIS – 25/7/2014

BIS requested a meeting with SESEI to understand the European Standards Organization system and how the ICT subject is handled in Europe. A presentation was given on EU Standards, the ESOs set-up, the New Approach and the concept of setting up a co-ordination group in the area of ICT.

SESEI attended the Second Meeting of BIS LITD 13 as an Observer- 12/9/2014

- The second meeting of LITD 13 was held in joint session with Mobile Phone Panel to consider the document Mobile Phone Handsets Part 1 Safety Requirements, in addition to regular Agenda of LITD 13.
- LITD 13 updated that the draft standard released for wide circulation has been accepted by the committee and ready for publishing soon. SESEI discussed the BIS-ETSI MoU, which was under review and approval by BIS legal department at that stage.



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9. Meeting with Mr. Bipin Kumar of Reliance Jio (LTE operator in India, preparing to go commercial soon) – 13/8/2014

SESEI received a meeting request from M/s Reliance Jio (<http://www.ril.com/>) to discuss M2M activities in India and related initiatives at Reliance Jio. SESEI and Mr. Bipin Kumar discussed the M2M status of work at Reliance Jio, TEC and TSDSI. SESEI and Reliance Jio also agreed to explore collaboration in the framework of the SESEI Project. This opportunity was taken to introduce the standards activities taking place at the ESOs, oneM2M, TSDSI and TEC covering on topics such as M2M Architecture, eHealth, ITS, Smart Grid, Smart Meter, Smart City etc. SESEI connected Mr. Bipin Kumar with TSDSI, TEC working group on M2M subject.

10. 10th meeting of core group constituted for implementations of directions issued by DOT on TRAI recommendations on 'Approach toward Green Telecommunications' - 29/9/2014

Project SESEI with the help of ETSI TC EE team members is working closely with this WG on Energy Efficiency (Green Passport) at TEC tasked to form testing and certification guidelines for Telecommunication Equipment covering Core and Radio Equipment including GSM, WCDMA & LTE Base Station, Router, Switches etc.

Agenda;

- To discuss methodology for measurement of energy efficiency of Base station (WCDMA and LTE) Equipment as per Base document based on ETSI approach.
- To discuss methodology for measurement of energy efficiency of transport equipment as per base document based on ATIS approach(ATIS-060015.02.2009).

Update;

- Group Chairman updated the members that the finalized draft on "GUIDELINES ON MEASUREMENT METRICS AND MEASUREMENT METHODOLOGY FOR GSM BS IN STATIC MODE FOR GREEN PASSPORT" as prepared basis ETSI standards is under review by Group Council at TEC and similar document on Router and Switches is already approved by the council and Group of DDG.
- Group Chair also asked the team members to suggest the focus group who could help finalizing document on WCDMA & LTE base station and Transport Equipment. Ericsson agreed to help on WCDMA/LTE base station and for Transport CISCO will be approached. The draft once ready will be shared among the group for review comments and further discussion. Alcatel Lucent was asked to help on settling up Lab testing facility for this so a work could be started.

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- SESEI also used this opportunity to share the ITU-ETSI joint event in Dec on this subject of EE and extended invitation to the group. Event details are now shared with the group members

3 Events Participation by SESEI

3.1 VAS Asia 2014 conference as organized by Bharat Exhibitions - 11/7/2014

SESEI participated in the 15th VAS (Value Added Services) Asia 2014 International Conference held on 11th July 2014. SESEI was part of the esteemed panel of inaugural session and gave Vote of thanks. In his speech SESEI highlighted importance of standardization, its harmonization and presented his session summary and views considering M2M (ICT) standardization aspect to it. SESEI also emphasized on the need to identify constraints that may restrict the development of MVAS (Mobile Value Added Services), M2M in India and put in place a favorable policy framework, standardization, its harmonization and global participation and supporting infrastructure for MVAS/M2M to grow and reach all corners of the country.

3.2 Amity University Telecom Vision Board Meeting- 11/7/2014

SESEI was invited to attend Amity University Telecom Vision Board Meeting and share prospective on Education about Standardization, how it could be integrated in the University curriculum. With the help of CEN, CENELEC and ETSI, the SESEI prepared and shared ESOs initiatives about Education about Standardization and suggested importance of the subject for inclusion in the university curriculum.

3.3 An Industry Roundtable on "Voice to Data - The next phase of Indian Telecom Revolution" organized by COAI - 14/7/2014

An Industry Roundtable on "Voice to Data - The next phase of Indian Telecom Revolution" was organized by COAI on the occasion of their Annual General Meeting held on 14th July 2014. SESEI participated in the Roundtable to interact with COAI and the Indian ICT players present in the Roundtable.



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3.4 India ESDM Conclave 2014 organized by Indian Chambers of Commerce – 24/07/2014

SESEI attended the ESDM Conclave in India 2014. This gave him an opportunity meet with the important stakeholders in the Electronic System Design and Manufacturing (ESDM) industry. Event gave an opportunity to connect with Electronics Industry and administration. Some of the highlights of the conclave were;

- The demand for Electronic products in India (Domestic Consumption and Exports) is projected to grow at 22% CAGR to reach USD 400 billion in FY2020 (from USD 45 billion in FY2009). Despite high growth in ESDM industry, the demand has outpaced the supply.
- The estimated production will reach USD 104 billion by the year 2020, creating a gap of USD 296 billion in demand and production. This creates a unique opportunity for companies in the ESDM sector to look at India as their next destination to cater to the domestic Indian demand as well as act as an exports hub.
- Major demand drivers fuelling high growth of the sector included rapid economic growth in the country, burgeoning middle class with increasing disposable income, reduced shelf life and aspiration value attached to electronic products. If the present growth trajectories continue, India's import bill for Electronics will exceed its Oil import bill by 2030 and the trade deficit from Electronics products will exceed that from Oil before the end of this decade. This poses a significant macro threat for the country which needs to be addressed urgently. With increasing government focus to create an ecosystem conducive for the growth of this industry and innovation based approach, the Indian ESDM is poised to register significant growth in coming years. Electronic Systems Design can become the strength of India. There are well over a thousand companies (local and multinational) across multiple cities and towns of India who excelled in Electronic Systems Design innovation.

3.5 "TechMahindra - Bosch IOT Innovation Connect" – 30/7/2014

Tech Mahindra and Bosch Software Innovations organized an event: **"Internet of Things Innovation Connect"** on 30th July 2014, at Tech Mahindra NSEZ (Noida) office. Event objective was to share IoT experiences and best practices from different industries. The event was attended by industry representatives and CXO leaders from different industries such as Manufacturing, Utilities, Retail, Healthcare, Telecom, Academician and Government.



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Dr. Christopher Holmes (Head- International Asia Pacific, IDC Insights) was key note speaker on Trends in Internet of Things (IoT) and moderated the Round Table discussion on IoT with Industry Leaders. The other eminent Speakers were Mr. CP Gurnani (CEO & MD Tech Mahindra) covering update on How IoT is changing IT Services Industry and Dr. Rainer Kallenbach (CEO & Chairman Executive Board, Bosch Software Innovations) covering update on The Internet of Things & Services: Current Developments and Future Preview.

SESEI attend the event as a speaker in the session on standards. SESEI shared the details on the ETSI and oneM2M Partnership Project. He also shared that oneM2M is developing technical specifications for a common M2M Service Layer that can be readily embedded within various hardware and software, connecting the wide range of devices in the field with M2M application servers worldwide. It is hoped that a standardized platform for M2M services and technologies will enable new business and partnering models. SESEI also shared updates on this subject by TEC and TSDSI.

3.6 Event on India Standards: “A strong ICT Nation” as organized by MAIT - 31/07/2014

Manufacturer Association of Information Technology (MAIT) in partnership with Department of Electronics & IT (DeitY) and Bureau of Indian Standards (BIS) organized a one-day programme titled “India Standards: A Strong ICT Nation” on 31st July, 2014 at Gulmohar Hall, India Habitat Centre, New Delhi.

With increasing calls for harmonization of conformity requirements with global best practices and upcoming programmes on post market surveillance, the issues deliberated during the conference were:

- Compulsory Registration Order – Experiences and Way Forward
- Market Surveillance, Quality Control, Inspection
- Anti-Counterfeiting and Consumer Awareness

SESEI was invited to participate as Session Chair during the session of Anti-Counterfeiting and Consumer Awareness. During the session start SESEI shared project SESEI details, highlighted importance of standards to address quality products and EU progress on the subject of Anti-Counterfeiting and Consumer Awareness.



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3.7 Workshop on 5G Standardization - GISFI five year Celebration - 1/9/2014

5G Standardization workshop was organized on the occasion of 5th year celebration of the Global ICT Standardization Forum for India (GISFI). The main topics discussed were:

- 5G User Perspective and Network capabilities
- Inclusive Growth and Secured Networked Society Perspective
- Networked Society and Strategic/Special Purpose Networks Perspective
- Network Architecture, Deployment Strategies and emerging Business Models Perspective
- Round Table Discussion: The Workshop Recommendations

SESEI attended the workshop. In brief updates areas below:

- The Seminar had a limited attendance mainly comprised of university professors, officials of Department of Telecommunications and students doing PHDs from GISFI connected/sponsored Universities.
- Prof. Ramjee Prasad, founding Chairman of GISFI, released a book authored by him titled "A Step Towards 5G Communications". This book provides views of the 5G and hence views on the potential standardization scenarios.
- It was informed that GISFI Delhi office has been shifted to HMR Institute of Technology and Management, Plot No. 370, Hamidpur, Delhi - 110036 INDIA.
- Professor Sandip Inamdar [Trustee GISFI, Secretary Vishwaniketan's Institute of Management Entrepreneurship and Engineering Technology (V-iMEET)] during his speech announced that GISFI will be self-sustainable and 50 PHDs have been awarded already through GISFI program.
- Sr DDG TEC Mr. A.K.Mittal and other member of TEC participated in the seminar and presented their requirement and prospective from 5G subject in India.

3.8 [M2M India Conclave 2014 - 19/9/2014](#)

SESEI participated as "Distinguished Session Lead Speaker & Session Moderator" in the "Conference Session" at the M2M India Conclave 2014 as an expert in the M2M sector held at Mumbai.



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SESEI presented the progress made by ETSI in M2M standardization field. He also shared the updates on the OneM2M initiative and the various industries associations and partners present in OneM2M. Lots of questions/queries were raised on standardization, certification, CE marking during this dedicated session on standards.

The event was sponsored by several companies (e.g. ADVANTECH, iBOT, altiux) which provided speakers and booth demos availability giving a clear pitching of their product portfolio around M2M business in India.

3.9 **“The Next Leap: Internet of Things” Workshop jointly organized by Tech Mahindra, Aeris and Nasscom - 22/9/2014**

SESEI participated in the Workshop on Internet of Things organized by Nasscom and Tech Mahindra. The main topics of the workshop were:

- Future of IoT and impediments to achieve it
- IoT business models - next steps to get there
- “How IoT will revolutionize industries -- impact of IoT across industries”

During the workshop it was discussed that how various industries especially Education, Medical, Agro, Banking, Transport, IT Services etc. can be connected and made available for better utility. Taking a note of question raised on standards, SESEI shared the progress of M2M standards at ETSI and oneM2M. SESEI was also asked to share these updates sometime to TechMahindra team members, which was acknowledged and agreed.

3.10 **Launch of Government of India “Make in India” campaign organized by Government of India and ASSOCHAM-25/9/2014:**

Hon’ble Prime Minister of India, Shri Narendra Modi, launched the ‘Make in India’ campaign. The ambitious project is a key mission of the Indian Government. With ‘No Defect, No Effect policy’, the government is committed to provide an impetus to high quality and environment friendly manufacturing in the country.



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SESEI attended the launch campaign of "Make in India". Prime Minister of India along with his key Cabinet Minister's and leading Industrialists i.e. Mr. Mukesh Ambani of Reliance Industries , Mr. Yogesh Chander Deveshwar, Head of ITC Industries and Mr. Cyrus Pallonji Mistry, Chairman of TATA Group of companies etc. addressed the gathering. It was clear from the event that "Make in India" is a very important priority for the government to increase its GDP share to 25% from current 15%. Government has also dedicated a website [makeinindia.com] for this while covering key sectors identified for this endeavor.

3.11 EBG National Event and Release of Position Paper - 26/9/2014

The India chapter of Europe Business Group released its Position Paper for the year 2014 and hosted its national event on 26th September 2014. The event was attended by the members of EBG, commercial counsellor of the Embassies of EU Countries and dignitaries from the EU Delegation to India. The Chief Guest of the event was Mr. Amitabh Kant, IAS, Secretary Department of Industrial Policy and Promotion, Ministry of Commerce and Industry and the opening remarks were given by Ambassador of the EU delegation in India H.E.Dr. João Cravinho.

Ambassador EU delegation in India, highlighted trade volumes, FTA and other open concerns which the EU Industry and administration is facing as listed in the position paper. He highlighted the close relationship Indian and EU enjoy since last 10 Years. Position paper was launched by Secretary, DIPP, Ministry of Commerce who applauded the relationship between EU and INDIA. Mr. Kant suggested EBG to visit his office with delegation and a meeting will be arranged with respective Ministry to discuss all the concern listed down in this position paper and way forward will be decided to resolve them. SESEI had contributed an update to section on Telecom Standards as part of this position paper.

4 Glossary

S.No.	Acronym	Expansion
1	AIMED	Association of Indian Medical Device Industry
2	AMI	Advanced Metering Infrastructure
3	ANPR	Automatic Number Plate Recognition
4	ARAI	Automotive Research Association of India
5	B2B2C	Business to Business to Consumer
6	BIS	Bureau of Indian Standards

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7	CA	Chartered Accountant
8	CAGR	Compound annual growth rate
9	CDAC	Centre for Development of Advanced Computing
10	CDoT	Centre for Development of Telematics
11	<i>C-MET</i>	Centre for Materials for Electronics Technology
12	COAI	Cellular Operators Association of India
13	CPRI	Central Power Research Institute
14	DCC-G	DC Components and Grids
15	DeitY	Department of Electronics and Information Technology
16	DoT	Department of Telecommunications, (GoI)
17	EBG	European Business Group
18	EBTC	European Business Technology Center
19	EC	European Commission
20	<i>EEAS</i>	<i>European External Action Service</i>
21	EEN	Enterprise Europe Network
22	EFTA	European Free Trade Association
23	EICC	Europe India Chambers of Commerce
24	ESDM	Electronic System Design & Manufacturing
25	ETA	European Technical Approval
27	ETD	Electrotechnical Technical Department
28	ETSI	European Telecommunications Standards Institute
29	EU	European Union
30	EVG	Electronics Vertical Group
31	FICCI	Federation of Indian Chamber of Commerce and Industry
32	FTA	Free Trade Agreement
33	GA	General Assembly
34	GISFI	Global ICT Standardization Forum for India
35	GIZ	Deutsche Gesellschaft für Internationale Zusammenarbeit GmbH
36	GSC	<i>Global Standards Collaboration</i>
37	ICTE	Information Communication Technology & Electronics)
38	IEC	International Electrotechnical Commission
39	IEEE	Institute of Electrical and Electronics Engineers
40	IEEE - SA	Institute of Electrical and Electronics Engineers – Standards Association



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41	IEEMA	Indian Electrical & Electronics Manufacturers' Association
42	IoT	Internet of Things
44	IPR	Intellectual Property Rights
45	IRD	International Relations Department
46	ISGF	India Smart Grid Forum
47	ISO	International Organization for Standardization,
48	ITS	Intelligent Transport System
49	JPG	Joint President Group
50	LVDC	Low Voltage DC Forum
51	LVDC	Indian Low-Voltage DC Forum
52	M2M	Machine to Machine
53	MAIT	Manufacturer Association of Information Technology
54	MCC	Mobile Competence Core
55	MEDC	Mechanical Engineering Division Council
56	MLA - ITRA	Media Lab Asia - Information Technology Research Academy
57	MVAS	Mobile Value Added Services
58	NFC	Near Field Communication
59	PAC	Project Advisory Committee
60	PAN	Permanent Account Number
61	PSB	Partner Standardization Body
62	PSIA	Physical Security Interoperability Alliance
63	R&TTE	Radio and Telecommunications Terminal Equipment
64	RBI	Reserve Bank of India
65	RTSP	Real Time Streaming Protocol
66	SC	Steering Committee
67	SESEI	Seconded European Standardization Expert in India
68	SMB-SG4	Standardization Management Board - Strategic Group 4
69	TAN	Tax Account Number
70	TEC	Telecommunications Engineering Centre
71	TSDSI	Telecommunications Standards Development Society, India
72	TTL	Tata TeleServices Ltd.
73	TWG	Technical Working Group
74	USTDA	US Trade and Development Agency
75	VAS	Value Added Services
76	WG	Working Group
77	WPA	Wi-Fi Protected Access

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5 Planned Activities for Next Quarters

- Lease Agreement Closure with EBTC/Eurochambers
- Quarterly Regulatory Compliance with the Chartered Accountant
- Publish Newsletters for both European and Indian Stakeholders and Quarterly Report
- Association Membership as approved by Steering Committee Members
- Continue monitoring TEC and TSDSI activities in the newly formed M2M Working groups.
- Continue working with BIS on LVDC in India, EN-115 adoption, the organization of the IEC GA meeting, Smart Grid, Smart Meter etc.
- BIS-CEN/CENELEC Joint Event/Workshop Meetings and Preparation
- Assist ETSI (TC EE) for the organization of the Joint TC-EE ITU-T SG5/WP3 meeting/workshop in India
- Explore 2nd Indo-Europe Workshop/Event

6 Contact Lists

Updated contact lists of Standards Organizations; Indian Government and Agencies; Industry and Trade Associations; and List of EU, Embassies and EBTC are available in docbox space:

<http://docbox.etsi.org/Partners/SESEI/Dinesh.C.Sharma/Contact%20Lists/>

