



BRIEF REPORT ON ASTAP-27 MEETING

**7th – 11th March 2016
Pattaya
Thailand**

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**On Behalf
MALAYSIAN TECHNICAL STANDARDS
FORUM BHD**

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1. Abstract

ASTAP-27 was held at Pullman Hotel, Pattaya from 7th to 11th March 2016. The ASTAP-27 was organized by the Asia-Pacific Telecommunity (APT). The first day started with the 7th Industry Workshop on two topics namely "Resilient ICT Systems for Disaster Management" and "IoT and Smart Cities". The meeting on various working groups and experts groups were held the following 4 days. It was highlighted that this meeting recorded the highest number of attendees that shows the important of standard works in the Asia Pacific Region.

2. List of Participants

The event was attended by officials and technical experts from various organizations from Asia Pacific region. It was attended by 128 participants representing Members, Associate Member, Affiliate Members, International/Regional Organizations and other organizations. There were 4 MTSFB delegates.

Dr. Gopinath presented a topic on Smart Cities and IoT Initiatives in Malaysia at the Industry Workshop and represented the MTSFB IoT WG.

3. Agendas/Topics

a) Industry Workshop

- i. The topics and presenters for the first part of the workshop on Resilient ICT system for Disaster Management are given in the table below.

Title	Presenter
The Best Practices of Resilient ICT Systems for Disaster Risk Management in the Philippines	Bgen. Nicolas D. Ojeda, Jr. (ret.) ICTO-DOST, Philippines
Best practices of resilient ICT systems for disaster management in Japan	Mr. Takeya Isobe, CTI Engineering Co., Ltd., Japan
Vehicle as a new social infrastructure especially in Disaster	Dr. Yuji Inoue, TOYOTA Info Technology Center Co., Ltd., Japan
Trials on disaster management system based on PS-LTE in Korea	Mr. Hyoungiel Park, KT Corporation, Republic of Korea
Our Focus on "Smart City" and ICT for Disaster Prevention	Ms. Mai Imoto , NTT WEST, Japan
Use of Smart Devices on Disaster Management System Complying Universal Accessibility Requirements"	Dr. Yong-Jick Lee, SCE Inc., Republic of Korea

- ii. The topics and presenters for the IoT and Smart Sustainable Cities are given in the table below.

Title	Presenter
IoT and Smart Cities: Challenges and Opportunities for Regulators	Mr. Harin Grewal, IDA, Singapore
Smart City & IoT Initiatives in Malaysia: Use Cases & Standards	Dr. Gopinath Rao Sinniah, Malaysia
IoT standardization promotion initiatives	Ms. Yuki Naruse, MIC, Japan
IoT and Smart City in Indonesia	Henry F. Jusuf, Indonesia
IoT and Smart City in China	Ms. Haihua Li, CAICT, China
IoT technologies for Smart City	Mr. Akihiro Kanazawa, NTT West, Japan
Introduction to Busan Smart City Project in Korea	Mr. Eunkwang Kim, SK Telecom, Rep. of Korea

- Dr. Gopinath presented on the Smart Cities and IoT Initiatives in Malaysia. The list of the presentation is as follows:

- It estimated that cities would host more than 65% of population in near future. Cities must be ready to accommodate this large inflow of people in various ways to make cities more livable. Various efforts have been strategized from formation of framework to creating application that will ensure that cities are sustainable.

In Malaysia, numerous efforts from various sectors are being addressed to ensure that Smart City is properly deployed and benefits everyone. Several Smart City initiatives in Malaysia were being tested and deployed, for example in Cyberjaya, Kuala Lumpur and Iskandar where leading edge technologies are adopted in collaboration with sectors of industry.

Standards are being adopted and created, new smart city use cases are being tested and deployed in various parts of the Malaysian cities. The coordinated effort from various organizations ensures the smooth deployment and sustainability of the Smart Cities.

Dr. Gopinath presenting at the Industry Workshop



- Other presenters highlighted the Smart city and IoT implementations in their respective countries.
- The next Industry Workshop will be held in ASTAP-28 for one day, the topic will focus on “IoT and Smart Cities”, and four sessions including panel discussion session will be arranged in order not only to share information and views on the specific aspects but also to have more time for Q&A.

b) **ASTAP 27 Meetings**

i. **Implementation Status of the Strategic Plan 2015-2017**

Mr. Masanori Kondo, Deputy Secretary General of the APT presented the document. He informed the meeting that based on the discussion and inputs of Work Programmes, the APT Secretariat prepared a report on the implementation status on Strategic Plan of the Asia-Pacific Telecommunity (2015-2017) and submitted to MC-39 for its consideration. The implementation status was noted by MC-39. MC has also requested all Work Programmes to implement Strategic Actions in Strategic Plan relevant to the Work Programme.



Action :

- *All WGs and EGs to include agenda item related to APT Strategic Plan in their meetings and consider the elements relevant to Standardization that are necessary to be included in the draft Strategic Plan for 2018 – 2020.*
- *APT Members to submit contributions relevant to Standardization to be included in the draft Strategic Plan for 2018 – 2020 to the next ASTAP Forum.*

ii. **Progress Report of Working Group on Service and Application (WG SA)**

Dr. Seyed Mostafa Safavi, Chairman of WG SA presented the report. Dr. Safavi reported that five EGs under WG SA reviewed and discussed on 5 EG Reports and 14 input contributions. **The report highlighted the WG proposal to merge EG on Speech and Natural Language Processing (EG SNLP) into EG on Multimedia Application (EG MA) and proposal to change the name of EG on**

Machine to Machine (EG M2M) to EG on Internet of Things Applications/ Services (EG IOT). The WG SA also revised the Terms of References of EG MA and EG IOT. The WG SA also developed two liaison statements to ITU-T Study Groups

The revised ToR for IoT are as follows:

Objectives:

- i. To exchange the regional interests in Internet of Things (IoT)/Machine-to-Machine (M2M) applications and/or services such as "Smart Cities," and "e-Health" amongst APT member countries
- ii. To study standardization activities in regards to IoT/M2M applications and/or services such as Smart Cities and e-Health in other standardization bodies
- iii. To study situations on the efficient use of ICT (Information and Communication Technologies) on IoT/M2M applications and/or services such as smart grid and e-Health amongst APT member countries
- iv. To identify use cases of the IoT/M2M applications and/or services such as Smart Cities and e-Health that can be used to derive requirements to ICT/telecommunication network in each country in the region

Output/Deliverables:

- i. Report of standardization activities regarding ICT/telecommunication networks on Smart Cities
- ii. Report of standardization activities regarding ICT/telecommunication networks on e-Health
- iii. Report of standardization activities regarding ICT/telecommunication networks on other M2M applications such as ITS (Intelligent Transport System)
- iv. Report of survey results on regional interests of the APT member countries
- v. Report on Smart Cities use cases that can be used to derive requirements on ICT/telecommunication networks in APT member countries
- vi. Report on e-Health use cases that can be used to derive requirements on ICT/telecommunication networks in APT member countries
- vii. Report on use cases of other M2M applications that can be used to derive requirements on ICT/telecommunication networks in APT member countries

M2M / IOT Expert Group

According the last EG-M2M meeting results, Malaysia proposed to initiate the development of APT report on Smart Cities which consists of Smart Cities use cases in APT member countries with the focus on the ICT and Telecommunication and other related technologies.

As the result of the discussion, it was decided to establish the ad-hoc group with following ToR:

Title: Ad-hoc group on 'Smart Cities Use Cases and Technologies'

- Leader: Dr. Gopinath Rao Sinniah (Malaysia)
- Member: Haihua Li (China), (TBD)Henry F. Jusuf (Indonesia), (TBD)Leck Leng Chye (Singapore), (TBD)Akihiro Kanazawa (Japan), (TBD)HyoungJun Kim (Korea) (6 countries in total)
- Terms of Reference
 1. Study on the Smart Cities Use Cases from Asia-Pacific Region
 2. Study on the ICT and the related technologies for Smart Cities
 3. Develop the APT report based the relevant studies
- Duration: ~ 2017

The chairman of EG-M2M instructed the ad-hoc leader (Dr. Gopinath) to prepare the template of report based on the proposed table of contents and to provide a work schedule.

iii. Date and Venue of ASTAP-28

Chairman reported that Advisory Board discussed and suggested to hold ASTAP-28 from 6 to 10 March 2017 and ASTAP-29 could be planned in September/October 2017 assuming MC-40 approves holding of two ASTAP meetings in 2017.

iv. Creation of e-mail reflectors

Chairman reported that the requests for creation of six e-mail reflectors have been received from the relevant Ad-hoc and EGs:

- Ad-hoc group for "Industry Workshop at ASTAP-28" (Ad-hoc Workshop)
- Editorial group for "Guideline for Management of Deploying ICT Solutions" (EG BSG)
- Discussion group for " Draft Recommendation of Information and Communication System using Vehicle during Disaster" (EG DRMRS)
- Correspondence group for "Multimedia Application" (EG MA)
- Correspondence group for "A survey of mobile application accessibility in APT member countries" (EG AU)
- Coordination Committee for "2016 C&I Event" (EG ITU-T).

There was an email circulated after the meeting to all the members requesting for member countries to suggest representatives in the various email groups created.

4. Findings

- Based on the Industry workshop, the followings have been suggested:
 - It is recommended that ASTAP needs to consider how to harmonize the many different IoT standardization activity in order to avoid standards fragmentation problem.
 - It is recommended that ASTAP needs to survey more use cases on Smart Cities in Asia-Pacific region in order to seek common framework/technologies as well as its enhanced services/applications. ***This task is currently lead by Dr. Gopinath.***
 - It is recommended that the future ASTAP Industry Workshops needs to consider specific or vertical topics related to IoT and Smart Cities that are of common interest to the Asia-Pacific member countries and industry stakeholders

- It is recommended that all presentation contributions could be further discussed in the relevant EGs of the ASTAP. Speakers are invited to join the ASTAP meeting for further discussion on the development of standardization works.
- M2M Expert Group name, objectives and terms of references have been changed to be aligned to Internet of Things.
- EG on Speech and Natural Language Processing (EG SNLP) has been merged into EG on Multimedia Application (EG MA).
- There will be an Industry Workshop at ASTAP-28 on IoT and Smart Cities. It is good that MTSFB to continuously contribute in this event.

5. Conclusion

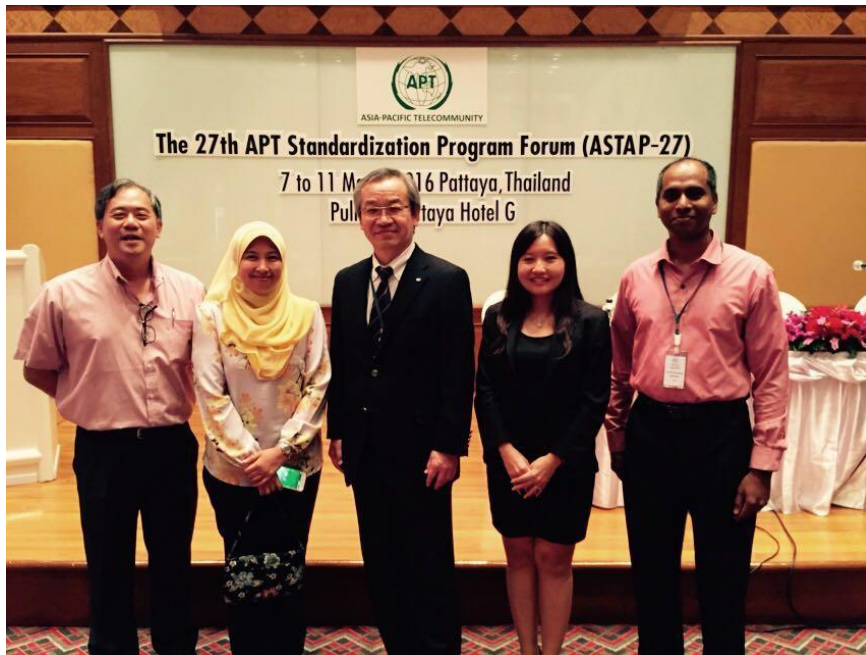
ASTAP 27 was held for 5 days. Followings are the take away points.

- ***Dr. Gopinath Rao is leading the work for Smart City document. This is a privilege and Malaysia should continuously lead and contribute in this at ASTAP and ITU-T SG20. This can be a first step for us to strategize and move to higher position in IoT. The terms of reference for the first document on smart cities are as follows:***
 - ***Study on the Smart Cities Use Cases from Asia-Pacific Region***
 - ***Study on the ICT and the related technologies for Smart Cities***
 - ***Develop the APT report based the relevant studies***
- ***MTSFB IoT WG has planned and strategized to provide standard documents at ASTAP and SG20.***

6. Acknowledgement

Dr. Gopinath would like to thank MCMC and MTSFB for their continuous support in the standardization activities. The IoT WG members have also been working collectively to produce documents that are deemed important and necessary for the growth of Malaysia's IoT industry.

Appendix 1 – Photos





MALAYSIAN TECHNICAL STANDARDS FORUM BHD

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