

**INTERNATIONAL ELECTROTECHNICAL COMMISSION****STANDARDIZATION MANAGEMENT BOARD****SUBJECT****SMB meeting 157, Frankfurt**

The document SMB/5957A/R supersedes SMB/5957/R, the deadline for comments remaining unchanged. Report to the SMB following the meeting of SyC Smart Cities, *Electrotechnical aspects of Smart Cities*, held in Singapore, on 2016-07-15.

BACKGROUND**1. Statistics on TC SyC Smart Cities activities:**

Number of P-Members:	14 (13 at the day of the meeting)
Number of experts:	0 (WGs established during the meeting)
Number of NPs submitted over the last 3 years:	0
Number of publications approved in last 5 years:	0
Number of current active projects:	0
Number of meetings since 5 years:	1

2. Concerns expressed by relevant IEC Technical Officer:

The closed session of the World Smart Cities Forum and the report provided by Frans Vreeswijk allowed greatly clarifying the scope and positioning of the SyC on the side of ISO and ITU activities.

3. Projects older than 5 years: none.**4. Requests for extension of target dates:** none.**5. Other important matters:**

Good first SyC meeting where the key issues have been addressed: Scope, structure, ToRs of the CAGs and WGs, conveners of the WGs, liaisons. The next important subjects to address are to build an action plan and develop a SBP. The input from the newly established CAGs and WGs is expected to move forward about these subjects.

ACTION

The SMB is invited to comment on this document, in order to approve the SyC report with the programme of work ([SyC PoW](#)).

Comments should be submitted using the technical server before **2016-10-07**.

Note: The cover page of this report to the SMB has been prepared by the Technical Officer responsible for the Technical Committee concerned and endorsed by the Technical Department Manager.

**REPORT TO THE STANDARDIZATION MANAGEMENT BOARD**

IEC/TC OR SC:	SECRETARIAT:	DATE:
SyC Smart Cities	Central Office	2016-09-12

Please ensure this form is sent to the Central Office as soon as possible **but no later than 3 months** following the TC or SC meeting, either by handing it to the Central Office representative or by sending it by e-mail.

TITLE OF TC	Systems Committee Electrotechnical aspects of Smart Cities
TITLE OF SCs	

TC AND/OR SC	MEETING DATES	PLACE AND COUNTRY	NUMBER OF DELEGATES	% OF P-MEMBERS	CHAIRMAN OF MEETING (NAME AND COUNTRY)
SyC Smart Cities	2016-07-15	Singapore	17	53	Fumio Ueno, Japan

TC AND/OR SC	DATE NEXT MEETING	PLACE NEXT MEETING	
SyC Smart Cities	February 2017	India	Proposal from the Indian delegate under investigation, to be confirmed by the Indian National Committee.

A. QUESTIONS OF PRINCIPLE ON WHICH A SMB DECISION IS REQUIRED**A.1 Approval of the Systems Committee Title**

For its first plenary meeting, SyC Smart Cities reviewed its title, and confirmed the title approved in SMB/5657A/RV: "Electrotechnical aspects of Smart Cities"

The SMB is kindly requested to endorse this title. The corresponding QP document will be circulated as SMB/5959/QP.

A.2 Approval of the Systems Committee Scope

For its first plenary meeting, SyC Smart Cities reviewed its scope and the comments provided in SMB/5748A/INF. The Committee confirmed the scope initial wording submitted in SMB/5657/R and approved in SMB/5657A/RV.

"To foster the development of standards in the field of electrotechnology to help with the integration interoperability and effectiveness of city systems.

Note 1

This will be done:

- By promoting the collaboration and systems thinking between IEC/TCs, the SyC and other SDOs in relation to city system standards;
- by undertaking systems analysis to understand the needs for standards and assess new work item proposals (NWIPs) related to city systems;
- By developing systems standards where needed and by providing recommendations to existing SyCs, TCs/SCs and other SDOs.

Note 2:

Overall common city goals include, for example, sustainable development, efficiency, resilience, safety and support for citizen's engagement and participation. However, an individual city will

follow its own approach.

Note 3:

“Cities” refers to any geographically located population.”

The SMB is kindly requested to endorse this Scope. The corresponding QP document will be circulated as SMB/5959/QP.

B. KEY DECISIONS AND CHANGES

This was the first meeting of the Systems Committee Smart Cities, which was held in conjunction with the World Smart Cities Forum and the World Cities Summit. The total attendance was sixty people including delegates, IEC officers, liaisons and guests. Thirty seven delegates from eight participating countries attended (13 P-Members). Delegates from two observer countries also attended: Korea and Spain.

B.1 Meeting summary and key outcomes:

SyC Smart Cities reviewed and approved its scope without any changes from the scope proposed in the SEG 1 report and approved by the SMB (SMB/6557/R – SMB/6557A/RV) and the Council (C/1925/DV – C/1940/RV).

SyC Smart Cities also approved

The Committee structure

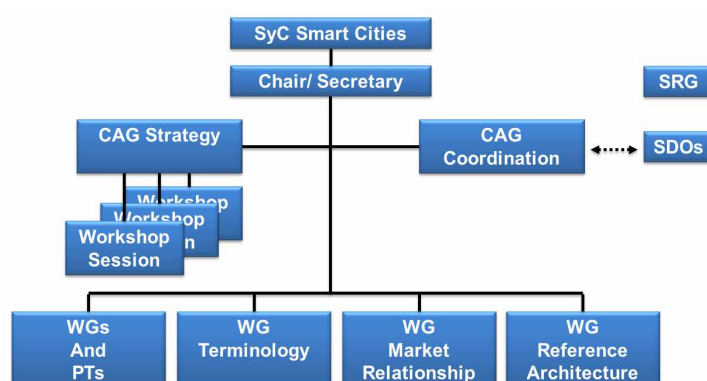
The terms of references for the groups established

The conveners nominated for these groups

Frans Vreeswijk, IEC General Secretary and CEO, reported from the closed session of the World Smart Cities Forum. This report allowed clarifying the boundaries of action for SyC Smart Cities for the collaboration with ISO, ITU-T and the other SDOs engaged into Smart Cities’ standardization. Jim Matthews, Chair of the IEC SMB, presented background information about the motivation for establishing SyC Smart Cities and the expectation of the SMB.

Manyphay Viengkham, Convenor of the Systems Resource Group (SRG), presented the IEC Systems approach and the support and services this group can provide. There is the need for consistent work methods between the Systems Committees when addressing systems level standardization. The SRG develops the methodology and the tools to implement in proper order the Systems Approach for standards development. In conjunction with its next plenary meeting, SyC Smart Cities agreed to hold a one day workshop as training session about the systems approach methodology.

B.2 SyC Smart Cities structure



B.3 Terms of references for the groups and conveners nominated

CAG Strategy (Convenor Fumio Ueno, JP)

- Roadmap for SyC Smart Cities
- Gather roadmaps from the TCs and SDOs engaged

- Maintain relationship and information exchange with users of the standards (city stakeholders)
- Develop and maintain the Strategic Business Plan of the SyC
- Discuss and propose the future structure for SyC Smart Cities
- Workshop sessions: use-case & gap analysis on a specific electro-technical system challenge of SyC Smart Cities
(incubator for potential new working items and new working groups)

CAG Coordination (Convenor Fumio Ueno, JP)

- Collaboration platform for the (ISO/IEC/ITU) TCs and other SDOs
- Harmonize work in the scopes “gray zones” between the SDOs
- Analyze gaps and overlaps of efforts and standards
- Management of the work inside SyC Smart Cities
- Agreeing on necessary work items for SyC and TCs
- Electrotechnical aspect assessment of smart cities

WG Market relationship (Convenor Biyu Wan, CN, Co-Convenor Sicelo Xulu, ZA)

- Identify the key aspects of a Smart City
- Collect and analyze use cases
- Electrotechnical aspect of smart cities simulation
- Road test standards in real cities

WG terminology (Convenor Michael Mulquin, GB)

- Develop and maintain a common set of terminology for the SyC
(Liaison to be established for common work with ISO)

WG reference architecture (Convenor Narang Kishor, IN, Co-Convenor Heng Qian, CN)

- Develop and maintain reference architecture model and standards mapping tool for smart cities in collaboration with SRG

Membership of the CAGs: The SyC Chair will invite Experts to be part of the CAGs. The Secretary will circulate an INF listing the Members. The National committees wishing to nominate members will be invited to contact the SyC Secretary.

Membership of the WGs: A call for Experts will be circulated.

B.4 Vice Chair

The Chinese National Committee proposed Ms SUN WEI (former Co-convenor of IEC/SEG 1) as Vice Chair for the Committee. Ms SUN WEI made a presentation about its potential contribution. The meeting agreed to the value of one or more Vice-chairs due to the complexity of the activities in the group. The Secretary will issue a call for nominations along with a proposed purpose for the Vice-Chair role.

B.5 Liaisons

Based on the SEG 1 report, SyC Smart Cities approved the following liaisons and liaison officers:

TC	TC Title	Liaison Officer
IEC /TC 8	Systems aspects for electrical energy supply	
IEC /TC 56	Dependability	Dejun Ma
IEC /TC 57	Power systems management and associated information exchange	
IEC /TC 59	Performance of household and similar electrical appliances	
IEC /TC 61	Safety of household and similar electrical appliances	

IEC /TC 65	Industrial-process measurement, control and automation		
IEC /TC 100	Audio, video and multimedia systems and equipment		
IEC /TC 111	Environmental standardization for electrical and electronic products and systems		
IEC / SyC Smart Energy	Smart Energy	Fumio Ueno	
IEC / SyC AAL	Active Assisted Living	Dejun Ma	
ISO/IEC/JTC1/ WG11	Information technology - Smart Cities	Tangli Liu	
ISO/IEC/JTC1/ SC 25	Information technology - Interconnection of information technology equipment	Weihua Zhang	
ISO/TC 184	Automation systems and integration		
ISO/TC 268	Sustainable cities and communities	Michael Mulquin	
ISO/TC 268 /SC 1	Sustainable cities and communities - Smart community infrastructures	Yoshiaki Ichikawa	
ITU-T/SG 20	IoT and its applications including smart cities and communities	Ziqin SANG	
IEEE	IEEE Smart Cities Initiative WG	Narang Kishor	

Note: Bold letters indicate that the liaison officer attended the meeting

B.6 Next meetings

SyC Smart Cities agreed to meet twice a year for the next two years. The next meeting is planned for February 2017. The Indian Delegate has offered to investigate if it would be possible for the Indian National Committee to extend an invitation.

The second meeting could be in conjunction with the IEC General Meeting of October 2017, in Vladivostok.

C. AREAS OF NEW WORK

This was the very first meeting of the committee. SyC Smart Cities did not identify areas of new works.

D. ISSUES / CONCERNS NEEDING SMB AND/OR CENTRAL OFFICE INTERVENTION

E. LIAISONS

See above, Item B.5.

F. P-MEMBER PARTICIPATION –

Requests for the Central Office to remind P-members of their obligations (see Annex)

G. STRATEGIC BUSINESS PLAN

☐ NOT MODIFIED

☐ ATTACHED

☒ EXPECTED BY 2017-10

Progress on the action items indicated in the SBP:

H. REQUEST FOR EXTENSION OF PROJECT TARGET DATES (SEE ANNEX)

☒ NONE

☐ ATTACHED

NAME AND SIGNATURE OF THE TC SECRETARY

Pierre Sebellin

Annexes

- 1) P-member participation report

Annex 1

SyC Smart Cities – P-member participation report

Notes:

- South Korea and Spain, which are O-Members, attended the meeting.
- The number of Experts is not recorded as no WGs were established at the time of the meeting.
- No documents have been yet submitted for vote
- NA stands for “Not Applicable”: Brazil was not P-Member at the time of the meeting.

P-MEMBERS	CONTRIBUTION TO TC OR SC MEETINGS			No. OF EXPERTS IN WG/MT/PT	PARTICIPATION TO THE VOTES (NP, CDV, FDIS, DTS, DTR) (%)		
	SINGAPORE 2016-07						
Austria							
Brazil	NA						
China	X						
France							
Germany	X						
India	X						
Italy							
Japan	X						
Mexico	X						
Russian Federation							
Singapore	X						
South Africa	X						
Sweden							
United Kingdom	X						