**Work Plan of ASTAP**(as of ASTAP28, March 2017)

| **No.** | **EG** | **Work Plan no.** | **Title** | **Expected Deliverable** | **Duration** | | **Contributions at  ASTAP-28** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Start** | **End** |
| **WG PSC** | | | | | | | |
| 1 | BSG | BSG-1 | Handbook to Introduce ICT Solution for the Community in Rural Areas | Report | ASTAP-24 | ASTAP-30 | N/A |
| 2 | BSG-2 | Guideline on referencing int’l standards in developing national standards in the field of ICT | Guideline | ASTAP-28 | ASTAP-32 | INP-43 |
| 3 | PRS | PRS-1 | ICT Standardization and Conformity Assessment System in Asia Pacific | Report | ASTAP-26 | ASTAP-29 | N/A |
| 4 | PRS-2 | Telecommunication Numbering Charges | Report | ASTAP-28 | ASTAP-30 | INP-29 |
| 5 | ITU-T | ITU-T-1 | Conformance and interoperability (C&I) | Report | ASTAP-22 | ASTAP-30 | INP-67 |
| 6 | GICT&EMF | GICT&EMF-1 | Status Report on Efforts to Green Data Centres in the ICT/Telecommunication sector in the APT member countries | Report | ASTAP-26 | ASTAP-29 | INF-10 |
| 7 | GICT&EMF-2 | Status report for standardization activities on e-waste and rare metals | Report | ASTAP-26 | ASTAP-31 | INP-45 |
| 8 | GICT&EMF-3 | Status report of Asia Pacific regional activities on human exposure to EMF (EMF impact) | Report | ASTAP-26 | ASTAP-29 | INF-16 |
| 9 | GICT&EMF-4 | APT members’ status on the deployment of green or environment friendly ICT project | Report | ASTAP-28 | ASTAP-31 | INF-10 |
| **WG NS** | | | | | | | |
| 10 | FN& NGN | FN& NGN-1 | VoLTE interoperability | Report | ASTAP-28 | ASTAP-30 | INP-11 |
| 11 |  | FN& NGN-2 | Future Transport Network Technologies | Report | ASTAP-26 | ASTAP-29 | INP-39 |
| 12 | DRMRS | DRMRS-1 | Information and Communication System Using Vehicle During Disaster | Recommendation | ASTAP-25 | ASTAP-29 | INF-08, INF-14 |
| 13 | SACS | SACS-1 | Seamless Access Communication Systems | Recommendation | ASTAP-27 | ASTAP-29 | INP-15 |
| 14 | SACS-2 | Broadband Train Communication Network using RoF Technologies | Report | ASTAP-27 | ASTAP-32 | INP-16 |
| 15 | SACS-3 | Overview of Broadband Access Network in APT member countries | Report | ASTAP-27 | ASTAP-31 | N/A |
| 16 | SACS-4 | Requirement of Transceiver in Coherent Radio over Fiber System | Report | ASTAP-28 | ASTAP-31 | INP-26 |
| **WG SA** | | | | | | | |
| 17 | IOT | IOT-1 | Smart Cities Use Cases and Technologies in APT region | Report | N/A | N/A | N/A |
| 18 | IOT-2 | Other M2M/ IoT Applications/Services | Report | N/A | N/A | N/A |
| 19 | IS | IS-1 | Framework of 4-tier Cloud Access Security Broker for cloud service security | Recommendation | ASTAP-28 | ASTAP-32 | INP-48 |
| 20 | MA | MA-1 | Survey of IPTV services in APT region | Report | ASTAP-28 | N/A | INP-24 |
| 21 | MA-2 | Harmonization of S2ST (Speech-to-Speech Translation) Standardization | Report/ Recommendation | ASTAP-28 | N/A | INP-21 |
| 22 | AU | AU-1 | Survey on the Status of Mobile Application Accessibility in the APT Region | Report | ASTAP-27 | ASTAP-30 | INP-52 |
| **TOTAL CONTRIBUTION TO WORKPLAN** | | | | | | | **18 out of 70 INP/INF Documents** |

**work plan of asTap (As of astap-28)**

**eg bsg**

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| **Number** | BSG-1 |
| **Title** | Handbook to Introduce ICT Solution for the Community in Rural Areas |
| **Output Document Type** | Report |
| **Relevant EG** | EG BSG, WG PSC |
| **Editor(s)** | Hideyuki IWATA (iwata.hideyuki@lab.ntt.co.jp) |
| **Scope** | Collecting ICT pilot project cases including e-Agriculture and Aquaculture, e-Education, e-Environment, e-Healthcare, e-Disaster risk management projects, and so on. in rural communities and generalizing the knowledge of them. |
| **Purpose** | Providing the actual and useful information to start the related new ICT application projects |
| **Related Documents** | [APT/ASTAP/REPT-13]. The APT Report on Handbook to introduce ICT solutions for the community in rural area (August 2014). |
| **Related Organization** | Telecommunication Technology Committee |
| **Timelines** | Aug. 2014: Approval of [APT/ASTAP/REPT-13]  Sept. 2015: Approval of [APT/ASTAP/REPT-13 (Rev.1)]  ASTAP-28: Issuing a questionnaire on smart city applications case study  ASTAP-29: (1) Addition of the e-aquaculture project to APT/ASTAP/REPT-13(Rev.1)  (2) Discussion of updates to include smart city applications case study in [APT/ASTAP/REPT-13 (Rev.1)]  ASTAP-30: Approval of [APT/ASTAP/REPT-13 (Rev.2)] that includes smart city case study |

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| **Number** | BSG-2 |
| **Title** | Guideline on referencing int’l standards in developing national standards in the field of ICT |
| **Output Document Type** | Guideline |
| **Group/Chair** | EG BSG / Mrs. Nguyen Thi Khanh Thuan |
| **Editor(s)** | Mr. Kihun Kim, TTA, Korea |
| **Scope** | The guideline describes type (category) of ICT standards, definition of standards, general procedure of development of standards as well as general principles in referencing ICT int’l standards when developing standards. This guideline will also provide various cases of national ICT standards of some countries which refers int’l standards. |
| **Purpose** | One of objectives of EG BSG is to assist developing countries in applying ITU-T Recommendations/int’t standards. The purpose of this work item is to provide basic principle and cases of referencing international standards including ITU-T recommendations when developing national standards.  This work item is related to the Strategic Plan of the Asia-Pacific Telecommunity 2015-2017, specifically, 1.4\* of Strategic Actions of the Strategic Plan  \*1.4 Share best practices, skills, regulations, and technologies to reduce the ICT development gap and to further develop ICT infrastructure so as to promote the innovation growth in the region; |
| **Related Documents** |  |
| **Timelines** | ASTAP-28: Initiation of the project  By 2017 ASTAP-29: Survey and selection standards list which developing countries have high interests to develop as their national standards  ASTAP-29 : Submission of a table of contents of the guideline  By 2018 ASTAP-30 : Collecting cases on various countries  By 2018 ASTAP-31: Discussion on a draft guideline  2018 ASTAP-31: Submission of the draft guideline  By ASTAP-32 : Revision of the draft guideline  ASTAP-32: Submission of the final output to the Plenary meeting |

**EG PRS**

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| **Number** | PRS-1 |
| **Title** | ICT Standardization and Conformity Assessment System in Asia Pacific |
| **Output Document Type** | Report |
| **Chairman** | Mr. Felix Rupokei |
| **Rapporteur(s)** | Ms. Nguyen Thi Thu Phuong, MIC, Viet Nam, [phuongnt@*mic*.gov.vn](mailto:phuongnt@mic.gov.vn) |
| **Scope** | The scope of this report is to cover standardization and conformity assessment systems, policy and strategy of APT member countries. |
| **Purpose** | The purpose of this activity is to collect information on ICT standardization and conformity assessment systems, policy and strategy of APT Member countries. |
| **Related Document** | ASTAP-26/OUT-22, ASTAP-27/OUT-10 |
| **Timelines** | **2015-2017:**  ASTAP- 26: Draft and confirm the questionnaire  ASTAP - 26-27: Send the questionnaire to APT countries  ASTAP - 27: Finalize report and present to ASTAP.  ASTAP 28: Continue improvement of the report to add more information of other countries within the region.  ASTAP 29: Continue improvement of the report to add more information from other countries within the region |

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| **Number** | PRS-2 |
| **Title** | Telecommunication Numbering Charges |
| **Working Group /  Expert Group** | WG PSC/EG PRS |
| **Objectives** | This study intends to provide survey result on annual numbering charges, limitations and challenges overcome if any, by regulators and/or Numbering administrators in AP region. |
| **Focus Area** | Tariff scheme for numbering resources. |
| **Expected Output and type of output document** | Report |
| **Use of the Output** | Reference for Regulatory Bodies and/or Numbering administrators on the necessary of number charging |
| **Work Plan/**  **Time Frame** | ASTAP 29 - Study  ASTAP 30 - Report |
| **Rapporteur/**  **Assistant Rapporteur and contact addresses** | Mr. Gava Lakau.  Phone: +675 3033220, Fax: +675 3004829  Email: glakau@nicta.gov.pg |
| **Proposed Administration/ Organization** | National Information and Communications Technology Authority (NICTA)  Papua New Guinea |

**EG ITU-T**

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| **Number** | ITU-T 1 |
| **Title** | Conformance and interoperability (C&I) |
| **Output Document Type** | APT Report |
| **Group/Chair** | EG ITU / Mr. Kaoru Kenyoshi |
| **Editor(s)** | Mr. Kaoru Kenyoshi, Mr. Nguyen Van Khoa |
| **Scope** | The scope of this work plan is developing an APT report on C&I relating to ITU C&I programme in four pillars   * Pillar1: conformity assessment * Pillar2: interoperability event * Pillar3: capacity building * Pillar4: assistance in the establishment of test centres and C&I programmes in developing countries |
| **Purpose** | This work plan aims to share the information and foster understanding and promote activities on C&I in the APT member countries. And it also supports to build the capability and find the resolution for interoperability issues of APT member countries.  Related items in the matrix to follow up APT strategic plan 2015-2017   * 1.2, 1.4, 2.2, 2.8, 6.1, 6.2, 7.3, 7.4, 7.5, 8.1, 8.3, 8.4, 8.5, 8.6 |
| **Related Document** | ASTAP-22/INP-65 Report of the 1st APT/ITU C&I Event 2013  ASTAP-24/INP-43(Rev.1) Report of the 2nd APT/ITU C&I Event 2014  ASTAP-26/INP-46(Rev.1) Report of the 3rd APT/ITU C&I Event 2015 |
| **Timelines** | Expected approval time is 2017 |

**EG GICT & EMF**

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| **Number** | GICT&EMF-1 |
| **Title** | Status Report on Efforts to Green Data Centres in the ICT/Telecommunication sector in the APT member countries |
| **Output Document Type** | Status report |
| **Relevant EG** | EG GICT & EMF |
| **Editor(s)** | Mr. Alex Kuik/ MTSFB, Malaysia  Mr. Nur Akbar Said/ MCIT, Indonesia |
| **Scope** | The scope of this report covers efforts in Asia Pacific region such as policies and activities on the Green Data Centre in the ICT/Telecommunication sector. |
| **Purpose** | The purpose of this report is to share existing regional green data centre efforts and best practices in the ICT/Telecommunication sector; as a reference and baseline document for future standardization work on green data centre. |
| **Related Documents** | ASTAP-26-INF-16, [ASTAP-27/INP-23](http://www.apt.int/sites/default/files/2016/02/ASTAP-27-INP-23-NTT-Datacenter.docx), [ASTAP-27/INP-38](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INP-38-MTSFB_-_Malaysia_Govt_Data_Centre_Baseline_Study.docx)  [ASTAP-27/INP-39](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INP-39-MTSFB_-_Malaysia_Technical_Code_Green_Data_Centre.docx), [ASTAP-27/INF-13](http://www.apt.int/sites/default/files/2016/03/ASTAP-27-INF-13-Indonesia-GreenDataCenter.docx) |
| **Related Organization** | APT Member countries |
| **Timelines** | ASTAP-26: Draft (skeleton) Status Report presented and endorsed  Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  Update on the progress of the report  Request for members’ contribution  ASTAP-28: Update and present First Draft Document.  Member countries contribution and presentations  ASTAP-29: Update and present Second Draft Document body.  Finalize the report |

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| **Number** | GICT & EMF -2 |
| **Title** | Status report for standardization activities on e-waste and rare metals |
| **Output Document Type** | Status report |
| **Relevant EG** | EG GICT & EMF |
| **Editor(s)** | Dr. Bum Sung Kim/ KITECH, Republic of Korea  Dr. Artprecha Rugsachart/NBTC, Thailand |
| **Scope** | The scope of this report introduces e-waste & rare metal related strategies, activities & management systems of international organizations as well as APT member countries. |
| **Purpose** | The purpose of this report is to share information related to E-waste & rare metals in order to raise awareness on the possible hazards & values of E-waste and rare metals. |
| **Related Documents** | ASTAP-23-OUT-14Rev.2  ASTAP-24-OUT-25  ASTAP-25-OUT-06Rev.1  ASTAP-28/INP-45 |
| **Related Organization** | APT member countries |
| **Timelines** | ASTAP-26: Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  update on the progress of the report  ASTAP-28: Member countries contributions and presentations  request for members’ contribution and draft status report  ASTAP-29: Member countries contributions and presentations  case study and best practices  ASTAP-30: Member countries contributions and presentations  update on the progress of the report  ASTAP-31: Finalize the report |

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| **Number** | GICT&EMF-3 |
| **Title** | Status report of Asia Pacific regional activities on human exposure to EMF (EMF impact) |
| **Output Document Type** | Status Report |
| **Relevant EG** | EG GICT&EMF |
| **Editor(s)** | Mr. Alex Kuik/ MTSFB, Malaysia  Dr.Juno An/IFRE, Republic of Korea |
| **Scope** | The scope of this Status Report cover international regulations and guidelines, related international activities of EMF exposure, national policy, regulation and guideline for EMF exposure, awareness and education outreach activities of EMF exposure in the APT member countries. |
| **Purpose** | The purpose of this Status Report is to share existing regional activities and best practices in order to raise awareness on the human exposure to EMF. This document can be a reference for future standardization activities. |
| **Related Documents** | ASTAP-24-OUT-25, ASTAP-25-TMP-16, ASTAP-26-INF-15, ASTAP27/INP46, ASTAP27/INP-47, ASTAP27/INP-09, ASTAP27/TMP-05 |
| **Related Organization** | APT member countries |
| **Timelines** | ASTAP-26: Request for members’ contribution  ASTAP-27: Member countries contributions and presentations  Update on the progress of the report  ASTAP-28: Member countries contribution and presentations, draft the status report  ASTAP-29: Finalize the report |

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| **Number** | GICT & EMF-4 |
| **Title** | APT members’ status on the deployment of green or environment friendly ICT project |
| **Output Document Type** | Report |
| **Relevant EG** | EG GICT&EMF |
| **Editor(s)** | Mr. Ratnam N. A./ MTSFB, Malaysia  Mr. Nguyen Van Khoa/ MIC, Vietnam |
| **Scope** | To collect use cases from any implementation of green ICT projects or applications from APT members and affiliate members including green ICT policies and strategies with key successful factors or challenges. |
| **Purpose** | To develop a report which will be a reference to prepare APT guideline for best practices and environment friendly policies for effective ICT deployment methods. |
| **Related Documents** | WTSA-16 Res. 73, ASTAP-28-INF-10, Presentations at Industry Workshop "Rare metal and e-waste" held at ASTAP-23, APT Report #1 "Introduction to Green ICT activities" |
| **Related Organization** | APT members and affiliate members |
| **Timelines** | ASTAP-28: Propose work plan  Request for members’ contribution  ASTAP-29: Member countries contributions and presentations  Update on the progress of the report  Request for members’ contribution  ASTAP-30: Update and present 1st draft report  Member countries contribution and presentations  ASTAP-31: Update and present 2nd draft report  Finalize the report |

**work plans of wg ns**

**EG FN&NGN**

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| **Number** | FN&NGN-1 |
| **Title** | VoLTE interoperability |
| **Document Type** | Report |
| **Group/Chair** | FN&NGN-EG / Dr. Joon Won LEE |
| **Editor(s)** | Mr. Kaoru Kenyoshi  Co-editor from Rep. of Korea (T.B.D.) |
| **Scope** | To draft and complete the APT report on the use cases and deployment scenarios for VoLTE Interoperability in APT members.  (focus on network and protocol aspects) |
| **Purpose** | Study a status of VoLTE interoperability:   1. To provide information on status of VoLTE services in APT member countries. 2. To facilitate maturity and interoperability of VoLTE service 3. To study possible common interfaces for the implementation of global VoLTE interoperability; |
| **Related Documents** | [[ 142-GEN ]](https://www.itu.int/md/meetingdoc.asp?lang=en&parent=T17-SG11-170206-TD-GEN-0142)  Draft New Recommendation ITU-T Q.30xx\_VoLTE\_Interconnection\_FW Framework of interconnection of VoLTE/ViLTE-based networks |
| **Related Organization** | ITU-T Q2/11, Q11/11  GSMA  3GPP |
| **Timelines** | ASTAP28: Initiate a work item  ASTAP29: Draft APT report  ASTAP30: Final APT report |

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| **Number** | FN&NGN-2 |
| **Title** | Future Transport Network Technologies |
| **Document Type** | Report |
| **Group/Chair** | FN&NGN-EG / Dr. Joon Won LEE |
| **Editor(s)** | Mr. Hiroki Date, Mr. Kaoru Arai, Dr. Makoto Murakami |
| **Scope** | Future transport network technologies including transport SDN, transport point to multi-point path, and synchronization over transport. |
| **Purpose** | To promote to clarify APT member countries’ use cases and requirements for transport network using future transport technologies including transport SDN, transport point to multi-point path, and synchronization over transport to provide useful information to APT member countries to deploy transport network technologies. |
| **Related Documents** | ASTAP26/INF4, INF5  ASTAP27/INP51, INP57 |
| **Related Organization** | ITU-T Q9/15  ITU-T Q10/15  ITU-T Q11/15  ITU-T Q12/15  ITU-T Q13/15  ITU-T Q14/15  IETF MPLS WG |
| **Timelines** | ASTAP27: Dispatch questionnaires to collect information  July 2016: Response to the questionnaires  ASTAP28:Outline of APT report  ASTAP29: Draft APT report  ASTAP30: Final APT report |

**EG DRMRS**

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| **Number** | DRMRS-1 |
| **Title** | Information and Communication System Using Vehicle During Disaster |
| **Output Document Type** | APT Recommendation |
| **Relevant EG** | EG DRMRS |
| **Editor(s)** | Mr. Ryokichi Onishi, Mr.Yasubumi Chimura, Mr.Masatoshi Mano, |
| **Scope** | To recommend APT member countries to introduce Information and Communication System Using Vehicles During Disaster |
| **Purpose** | To develop an APT/ASTAP Recommendation on Information and Communication System Using Vehicles During Disaster  To develop as necessary liaison documents to external organization.  ASTAP Strategic Activity Item: 3.3 |
| **Related Documents** | APT/ASTAP/REPT-21 Requirements of Information and Communication System using Vehicle during Disaster (ASTAP-26/OUT-23)  DRAFT APT Recommendation on Information and Communication System Using Vehicle During Disaster (ASTAP-28/TMP-14(Rev.1)) |
| **Related Organization** | ITU-D Q5/2 |
| **Timelines** | * ASTAP-25- Consider the input contribution of “Information on Disaster Information and Communication System Standard Using Vehicle” * ASTAP-26- Agree to the draft system proposal of Information on Disaster Information and Communication System Standard Using Vehicle * ASTAP-28 and a workshop in 2017 - Discussion on System Specification for Information and Communications System using Vehicle during Disaster. * ASTAP-29 - Produce draft recommendation and submit the draft to plenary if completed. |

**EG SACS**

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| **Number** | SACS-1 |
| **Title** | Seamless access communication systems |
| **Document Type** | Recommendation |
| **Group/Chair** | SACS-EG / Dr. Hiroyo Ogawa |
| **Editor(s)** | TBD |
| **Scope** | To recommend APT member countries to implement RoF technologies in the seamless access communication systems as guidance and to address deployment scenario of resilient access networks, mobile fronthaul/mobile backhaul , RoF relay indoor networks and WDM PON integrated with RoF. |
| **Purpose** | To develop an APT/ASTAP Recommendation on seamless access communication systems using RoF technologies and provide guidance to APT member countries to implement RoF transmission links in the seamless access networks .  To develop as necessary liaison documents to external organization. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimeter-wave Radio on Fiber systems  APT/ASTAP/REPT-04: Technology trends of telecommunications above 100 GHz  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave Radio over Fiber technology for resilient access networks  APT/ASTAP/REPT-19: Integration of radio-over-fiber with WDM PON for seamless access communication system  APT/ASTAP/REPT-20: Radio-over-fiber relay link for Indoor communication system  ITU-T G. Sup. 55: Radio-over-fiber (RoF) technologies and their applications |
| **Related Organization** | ITU-T Q2/15  IEC TC 103 WG6 |
| **Timelines** | 2017   * ASTAP-28 * Consider the input contributions * Continue drafting a working document of a draft new APT Recommendation/Report * Review and update work plan as appropriate * ASTAP-29 * Consider the input contributions * Continue drafting a working document of a draft new APT Recommendation/Report * Review and update work plan as appropriate * Draft liaison documents to external organization as necessary   2018   * ASTAP-30 * Consider the input contributions * Continue drafting a working document of a draft new APT Recommendation/Report * Review and update work plan as appropriate * Draft liaison documents to external organization as necessary * ASTAP-31 * Finalize the draft new APT Recommendation/Report on seamless access communication systems and submit to the plenary |

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| **Number** | SACS-2 |
| **Title** | Broadband train communication network using RoF technologies |
| **Document Type** | Report |
| **Group/Chair** | SACS-EG / Dr. Hiroyo Ogawa |
| **Editor(s)** | Dr. Tetsuya Kawanishi |
| **Scope** | To provide APT member countries one of use cases using RoF technologies in the seamless access communication systems and to address deployment scenario of broadband train communication network using RoF technologies. |
| **Purpose** | To develop an APT/ASTAP Report on broadband train communication networks with RoF technologies.  To develop as necessary liaison documents to external organization. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimetre wave Radio on Fiber systems  APT/ASTAP/REPT-04: Technology trends of telecommunications above 100 GHz  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave Radio over Fiber technology for resilient access networks  APT/ASTAP/REPT-19: Integration of radio-over-fiber with WDM PON for seamless access communication system  APT/ASTAP/REPT-20: Radio-over-fiber relay link for Indoor communication system  ITU-T G. Sup. 55: Radio-over-fiber (RoF) technologies and their applications |
| **Related Organization** | ITU-T Q2/15  IEC TC 103 WG6 |
| **Timelines** | 2017   * ASTAP-28   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate     - Consider a liaison documents from AWG * ASTAP-29   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate   2018   * ASTAP-30   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate     - Draft liaison documents to external organization as necessary * ASTAP-31   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate     - Draft liaison documents to external organization as necessary   2019   * ASTAP-32   + - Finalize the draft new APT Report on broadband train communication network using RoF and submit to the plenary |

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| **Number** | SACS-3 |
| **Title** | Overview of broadband access network in APT member countries |
| **Document Type** | Report |
| **Group/Chair** | SACS-EG / Dr. Hiroyo Ogawa |
| **Editor(s)** | Dr. Ukrit Mankong |
| **Scope** | To provide APT member countries the situation and trend of broadband access network. |
| **Purpose** | To develop an APT/ASTAP Report on overview of access network in APT member countries. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimetre wave Radio on Fiber systems  APT/ASTAP/REPT-04: Technology trends of telecommunications above 100 GHz  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave Radio over Fiber technology for resilient access networks  APT/ASTAP/REPT-19: Integration of radio-over-fiber with WDM PON for seamless access communication system  APT/ASTAP/REPT-20: Radio-over-fiber relay link for Indoor communication system  ITU-T G. Sup. 55: Radio-over-fiber (RoF) technologies and their applications |
| **Related Organization** | ITU-T Q2/15  IEC TC 103 WG6 |
| **Timelines** | 2017   * ASTAP-28   + - No input contributions     - Continue discussion on a working document of a draft new APT Report     - Review and update work plan as appropriate * ASTAP-29   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate   2018   * ASTAP-30   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate * ASTAP-31   Finalize the draft new APT report on overview of broadband access network in APT member countries and submit to the plenary |

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| **Number** | SACS-4 |
| **Title** | Requirement of transceiver in coherent radio over fiber system |
| **Document Type** | Report |
| **Group/Chair** | SACS-EG / Dr. Hiroyo Ogawa |
| **Editor(s)** | Dr. Ukrit Mankong |
| **Scope** | To provide APT member countries technical guidance and requirement of a transmitter unit to configure coherent radio over fiber system. |
| **Purpose** | To develop an APT/ASTAP Report on requirement of transceiver in coherent radio over fiber system.  To develop as necessary liaison documents to external organization. |
| **Related Documents** | APT/ASTAP/REPT-03: Characteristics and requirements of optical and electrical components for millimetre wave Radio on Fiber systems  APT/ASTAP/REPT-11: Wired and wireless seamless connections using millimeter-wave Radio over Fiber technology for resilient access networks  APT/ASTAP/REPT-20: Radio-over-fiber relay link for Indoor communication system  ITU-T G. Sup. 55: Radio-over-fiber (RoF) technologies and their applications |
| **Related Organization** | ITU-T Q2/15  IEC TC 103 WG6 |
| **Timelines** | 2017   * ASTAP-28   + - Propose new work item and work plan     - Consider the input contributions     - Continue drafting a working document of a draft new APT Report * ASTAP-29   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate     - Draft liaison documents to external organization as necessary   2018   * ASTAP-30   + - Consider the input contributions     - Continue drafting a working document of a draft new APT Report     - Review and update work plan as appropriate     - Draft liaison documents to external organization as necessary * ASTAP-31   + - Finalize the draft new APT Report on requirement of transceiver in coherent radio over fiber system and submit to the plenary |

**work plans of wg SA**

**EG IOT**

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| **Number** | IOT-1 |
| **Title** | Smart Cities Use Cases and Technologies in APT region |
| **Output Document Type** | APT Report |
| **Group/Chair** | EG IOT / Dr. Hideo IMANAKA |
| **Editor(s)** | Dr. Gopinath Rao Sinniah |
| **Scope** | The scope of this work item is followings:   * Report of standardization activities regarding ICT/telecommunication networks on Smart Cities * Report on use cases of Smart Cities that can be used to derive requirements on ICT/telecommunication networks in APT member countries |
| **Purpose** | The purpose of this work plan is to develop an APT report which includes information such as use case, technologies, solutions, ecosystem, and standard activities of SDOs etc. relating to Smart Cities. This work item aims to collect information related to Smart Cities of each APT member country such as best practice, and to share them among APT member countries. It also aims to support build up Smart Cities in APT member countries. |
| **Related Document** | TBD |
| **Timelines** | 2017 |
| **Relevance to APT Strategic Plan** | 1.4, 2.1, 6.1, 6.2, 8.1, 8.6 |

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| **Number** | | IOT-2 |
| **Title** | **Other M2M/ IoT Applications/Services** | |
| **Output Document Type** | APT report | |
| **Group/Chair** | EG IOT/ Dr. Hideo IMANAKA | |
| **Editor(s)** | TBD | |
| **Scope** | Specific topic on M2M/IoT-related applications and /or services such as Intelligent Transport System | |
| **Purpose** | * Report of standardization activities regarding ICT/telecommunication networks on other M2M/IoT applications such as ITS (Intelligent Transport System) * Report on use cases of other M2M/IoT applications that can be used to derive requirements on ICT/telecommunication networks in APT member countries * Report of survey results on regional interests of the APT member countries | |
| **Related Document** | TBD | |
| **Timelines** | 2017 | |
| **Relevance to APT Strategic Plan** | 6.1 | |

**EG IS**

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| **Number** | IS-1 |
| **Title** | Framework of 4-tier Cloud Access Security Broker for cloud service security |
| **Output Document Type** | Recommendation |
| **Group/Chair** | EG IS / Miho Naganuma |
| **Rapporteur (s)** | Kihyo Nam and Heuisu Ryu |
| **Scope** | This document is to provide a framework of 4-tier CASB with following below. Here are some of the following, including what to include in the future.   * Introduction to gap analysis of standard activity * Access Control Protocol for Cloud Service Security in 4-tier CASB * Security control process for efficient cloud service security in 4-tier CASB environments * Secure communication protocols between CASBs in 4-tier CASB settings * Methods to manage security control for CASB and non-CASB secure devices in BYOD(Bring Your Own Device) environments * Simulation and performance evaluation of the framework |
| **Purpose** | This draft document is to propose the framework that has to be included in 4-tier cloud access security broker (CASB), consisted of secure agent, CASB proxy, CASB inline gateway, and CASB secure API.  The discussion and the outcome of this work item are related to efficiency of cloud service security. Many security companies around the world are developing and selling CASB products. CASB products can be divided by four types, but many problems may arise in a heterogeneous CASB environment, such as overlapping security control and inconsistency or desynchronizing of security policy. This document provides the framework of 4-tier CASB solving these problems. |
| **Related Document** | ASTAP-28/INP-48 (Rev.1), ASTP-28/TMP-26 |
| **Timelines** | Final output: ASTAP-32(2019) |

**EG MA**

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| **Number** | MA-1 |
| **Title** | Survey of IPTV services in APT region |
| **Output Document Type** | Report |
| **Group/Chair** | EG MA / Hideki Yamamoto |
| **Editor(s)** | JEE-IN KIM, Konkuk University, KOREA (Republic of)  Email: jeeink@gmail.com  Hideki Yamamoto, Oki Electric Industry Co., Ltd., Japan  Email: yamamoto436@oki.com |
| **Scope** | IPTV commercial and/or prototype service. (TBD) |
| **Purpose** | To assist the basic design of deployment of IPTV services in Asia Pacific region  (TBD) |
| **Related Document** | ASTAP-25/INP-25, “Liaison statements of EG MA” |
| **Timelines** | ASTAP-28: Discussion of draft Questionnaire, issuing liaison statement on call for contribution on questionnaire.  ASTAP-28: Approval of Questionnaire |

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| **Number** | MA-2 |
| **Title** | Harmonization of S2ST (Speech-to-Speech Translation) Standardization |
| **Output Document Type** | Recommendation/ Report |
| **Relevant EG** | MA |
| **Editor(s)** | Mr. Shoichi Senda |
| **Scope** | The initial work of S2ST standardization has already completed in ITU-T SG16. It is a question whether additional standardization is required. If additional standardization needs are recognized, appropriate action to keep harmonization with existing standards will be clarified in this work item. |
| **Purpose** | EG SNLP(\*1) was a pioneer of S2ST standardization. The group has been contributed ITU-T SG16 standardization based on various needs in Asia Pacific Region where so many languages are spoken. The purpose of this work plan is reflecting the needs in Asia and Pacific region to all standardization activity relating S2ST service and technology through the harmonization of S2ST standardization. |
| **Related Documents** | Liaison statement to ITU-T SG2 (ASTAP-24/OUT-18)  Liaison Statement from ITU-T SG2 (ASTAP-27/INP-40) |
| **Related Organization** | ITU-T Q21/16, Q24/16 |
| **Timelines** | Issues recognition: any time  Solution study: 1-2 meetings after the issues recognition  Action: depending the solution agreed |

(\*1) EG SNLP was merged into EG MA during ASTAP-27.

**EG AU**

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| **Number** | AU-1 |
| **Title** | Survey on the Status of Mobile Application Accessibility in the APT Region |
| **Output Document Type** | Report |
| **Relevant EG** | Accessibility & Usability |
| **Editor(s)** | Jee-In Kim, Konkuk University, Hark Sohn and Yong Lee, SCE Inc. (Republic of Korea) |
| **Scope** | The report describes the current status of mobile application accessibility and its standardization activity in the APT region. It should be discussed that the report can be used to promote the international standardization activities. The definitions of terms - such as mobile application accessibility - are discussed. The problems with the mobile application accessibility and its improvement are discussed. The current status and work plans of the APT countries in the mobile application accessibility are also discussed. |
| **Purpose** | The report aims to provide with general understanding of the current status of the standardization activities for mobile application accessibility in the APT countries. It is also aimed to identify standardization issues of mobile application accessibility in the region. The mobile application developers can have information for their design and implementation of mobile applications which is accessible by people with special needs in the APT countries. The standard developers, who deal with national as well as international standards, are also able to utilize the report. |
| **Related Documents** | ASTAP-28/TMP-22 “Report of EG AU” |
| **Related Organization** | TTA, KATS and NIA, Korea  TTC, JBMIA and JISC, Japan  TISI, NECTEC and NBTC Thailand and the APT countries  ITU-T Q26/16 |
| **Timelines** | 2016 ASTAP-27: Initiation and Discussion on the direction of the report  2017 ASTAP-28: Detailed planning and preparing a draft.  2017 e-mail correspondence group: Discussion on the draft  2017 ASTAP-29: Start the survey process  2018 e-mail correspondence group: Collecting data and preparing the report  2018 ASTAP-30: Submission of the report |